

chain nodes :
 10 11 12 17 30 31 34 35 36 39 40 41 42 43 44 45 46 47 48 49
 ring nodes :
 1 2 3 4 5 6 7 8 9 18 19 20 21 22 23
 ring/chain nodes :
 32 57
 chain bonds :
 2-17 6-39 10-11 10-12 30-31 31-32 34-35 35-36 40-42 41-43 41-44 45-48 46-47
 ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-9 8-9 18-19 18-23 19-20 20-21 21-22 22-23
 exact/norm bonds :
 2-17 6-39 7-8 7-9 8-9 10-11 10-12 18-19 18-23 19-20 20-21 21-22 22-23 30-31 31-32
 34-35 35-36 40-42 41-43 41-44 45-48 46-47
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6
 isolated ring systems :
 containing 1 : 7 : 18 :

G1:[*1],[*2]

G2:C,O

G3:NO2,NH,NH2,N,[*3],[*4],[*5]

G4:Cl,Br,F,I,OH,SH,NH2,NO2,X,[*6],[*7],[*8],[*9]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS
 12:CLASS 17:CLASS 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 30:CLASS 31:CLASS
 32:CLASS 34:CLASS 35:CLASS 36:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS
 44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS 49:CLASS 50:Atom 57:CLASS 58:Atom

Generic attributes :

42:
 Saturation : Saturated

Number of Carbon Atoms : less than 7
43:
Saturation : Saturated
Number of Carbon Atoms : less than 7
44:
Saturation : Saturated
Number of Carbon Atoms : less than 7
45:
Saturation : Saturated
Number of Carbon Atoms : less than 7
46:
Saturation : Saturated
Number of Carbon Atoms : less than 7

10/581,897 (amended)

=>Testing the current file.... screen

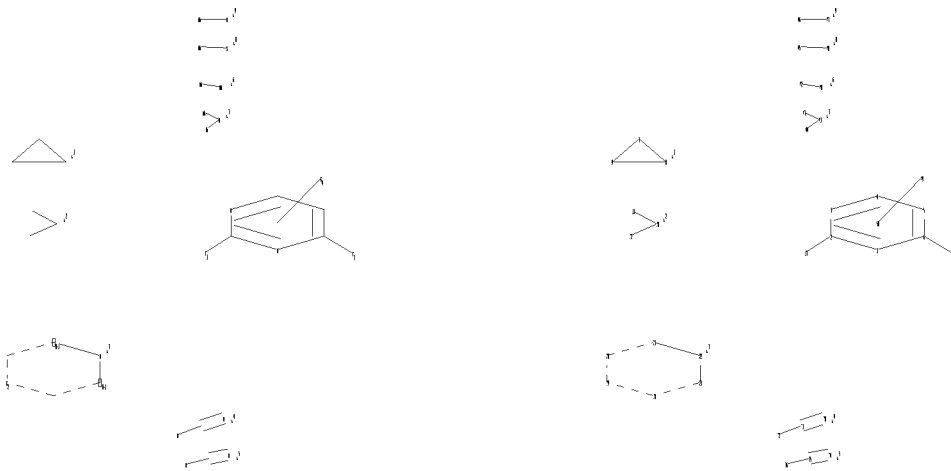
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L1 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10581897 (amd).str



chain nodes :

10 11 12 17 30 31 34 35 36 39 40 41 42 43 44 45 46 47 48 49


```

ring nodes :
1  2  3  4  5  6  7  8  9  18  19  20  21  22  23
ring/chain nodes :
32
chain bonds :
2-17  6-39  10-11  10-12  30-31  31-32  34-35  35-36  40-42  41-43  41-44  45-48
46-47
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  7-8  7-9  8-9  18-19  18-23  19-20  20-21  21-22
22-23
exact/norm bonds :
2-17  6-39  7-8  7-9  8-9  10-11  10-12  18-19  18-23  19-20  20-21  21-22  22-23
30-31  31-32  34-35  35-36  40-42  41-43  41-44  45-48  46-47
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
isolated ring systems :
containing 1 : 7 : 18 :

```

G1:[*1],[*2]

G2:C,O

G3:NO2,NH,NH2,N,[*3],[*4],[*5]

G4:Cl,Br,F,I,OH,SH,NH2,NO2,X,[*6],[*7],[*8],[*9]

```

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:CLASS
11:CLASS 12:CLASS 17:CLASS 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom
30:CLASS 31:CLASS 32:CLASS 34:CLASS 35:CLASS 36:CLASS 39:CLASS 40:CLASS
41:CLASS 42:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS
49:CLASS 50:Atom
Generic attributes :
42:
Saturation           : Saturated
Number of Carbon Atoms : less than 7
43:
Saturation           : Saturated
Number of Carbon Atoms : less than 7
44:
Saturation           : Saturated
Number of Carbon Atoms : less than 7
45:
Saturation           : Saturated
Number of Carbon Atoms : less than 7
46:
Saturation           : Saturated
Number of Carbon Atoms : less than 7

```

L2 STRUCTURE UPLOADED

=> que L2 NOT L1

L3 QUE L2 NOT L1

=> d l3

L3 HAS NO ANSWERS

L1 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L2 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

L3 QUE L2 NOT L1

=> s l3 sss sam

SAMPLE SEARCH INITIATED 15:39:38 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5027 TO ITERATE

39.8% PROCESSED 2000 ITERATIONS

24 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 96288 TO 104792

PROJECTED ANSWERS: 740 TO 1672

L4 24 SEA SSS SAM L2 NOT L1

=> =>Testing the current file.... screen

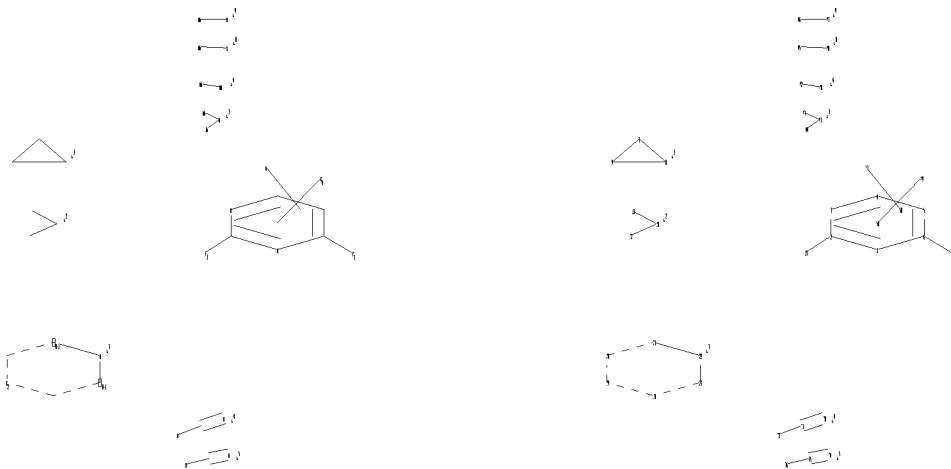
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L5 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10581897 (amd 1).str



chain nodes :

10 11 12 17 30 31 34 35 36 39 40 41 42 43 44 45 46 47 48 49

```

ring nodes :
1  2  3  4  5  6  7  8  9  18  19  20  21  22  23
ring/chain nodes :
32  57
chain bonds :
2-17  6-39  10-11  10-12  30-31  31-32  34-35  35-36  40-42  41-43  41-44  45-48
46-47
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  7-8  7-9  8-9  18-19  18-23  19-20  20-21  21-22
22-23
exact/norm bonds :
2-17  6-39  7-8  7-9  8-9  10-11  10-12  18-19  18-23  19-20  20-21  21-22  22-23
30-31  31-32  34-35  35-36  40-42  41-43  41-44  45-48  46-47
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
isolated ring systems :
containing 1 : 7 : 18 :

```

G1:[*1],[*2]

G2:C,O

G3:NO2,NH,NH2,N,[*3],[*4],[*5]

G4:Cl,Br,F,I,OH,SH,NH2,NO2,X,[*6],[*7],[*8],[*9]

```

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:CLASS
11:CLASS 12:CLASS 17:CLASS 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom
30:CLASS 31:CLASS 32:CLASS 34:CLASS 35:CLASS 36:CLASS 39:CLASS 40:CLASS
41:CLASS 42:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS
49:CLASS 50:Atom 57:CLASS 58:Atom
Generic attributes :
42:
Saturation           : Saturated
Number of Carbon Atoms : less than 7
43:
Saturation           : Saturated
Number of Carbon Atoms : less than 7
44:
Saturation           : Saturated
Number of Carbon Atoms : less than 7
45:
Saturation           : Saturated
Number of Carbon Atoms : less than 7
46:
Saturation           : Saturated
Number of Carbon Atoms : less than 7

```

L6 STRUCTURE UPLOADED

=> que L6 NOT L5

10/581,897 (amended)

L7 QUE L6 NOT L5

=> d 17

L7 HAS NO ANSWERS

L5 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L6 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

L7 QUE L6 NOT L5

=> s 17 sss sam

SAMPLE SEARCH INITIATED 15:42:02 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5027 TO ITERATE

39.8% PROCESSED 2000 ITERATIONS

14 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 96288 TO 104792

PROJECTED ANSWERS: 348 TO 1058

L8 14 SEA SSS SAM L6 NOT L5

=> => d his

(FILE 'HOME' ENTERED AT 15:38:26 ON 16 JAN 2010)

FILE 'REGISTRY' ENTERED AT 15:38:46 ON 16 JAN 2010

L1 SCREEN 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L2 STRUCTURE UPLOADED

L3 QUE L2 NOT L1

L4 24 S L3 SSS SAM

L5 SCREEN 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L6 STRUCTURE UPLOADED

L7 QUE L6 NOT L5

L8 14 S L7 SSS SAM

L9 953 S L7 SSS FUL

=> => s 19

L10 74 L9

=> d 110 1-74 bib,ab,hitstr

L10 ANSWER 1 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2009:1536603 CAPLUS
 DN 152:28749
 TI Synergistic fungicidal compositions containing pyrazolinones
 IN Gewehr, Markus; Dietz, Jochen; Grote, Thomas; Haden, Egon
 PA BASF SE, Germany
 SO PCT Int. Appl., 55pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009147205	A2	20091210	WO 2009-EP56866	20090604
	W:				
	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW:				
	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRAI EP 2008-157648 A 20080605

AB The present invention relates to a composition comprising a 5-amino-3-oxo-2,3-dihydropyrazole of the formula I (R1 = C1-10 alkyl; R2 = alkyl, alkenyl, or alkynyl; R3 = (un)substituted aryl; and X = O or S) and ≥ 1 active compound selected from strobilurins, carboxamides, azoles, heterocyclic compds., carbamates, etc. in a synergistically effective amount. A method for controlling phytopathogenic fungi comprises treating the fungi, their habitat, or seed, soil or plants to be protected against fungal attack with effective amts. of the compds. applied jointly, simultaneously sep., or in succession. Thus, a mixture of 5-amino-2-isopropyl-3-oxo-4-o-tolyl-2,3-dihydropyrazole-1-carbothioic acid allyl ester and propineb (16 + 1 ppm) synergistically controlled the late blight pathogen *Phytophthora infestans* in a microtiter test, with an efficacy of 98%.

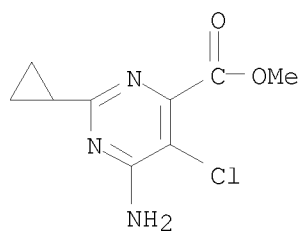
IT 858954-83-3

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic fungicidal combinations of pyrazolinones and other active compds.)

RN 858954-83-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester
 (CA INDEX NAME)

10/581,897 (amended)



L10 ANSWER 2 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2009:1048611 CAPLUS
 DN 151:281654
 TI Herbicidal combinations comprising a herbicide of the class of the
 diamino-s-triazines
 IN Hacker, Erwin; Hess, Martin; Hills, Martin Jeffrey; Bonfig-Picard, Georg;
 Auler, Thomas
 PA Bayer Cropscience AG, Germany
 SO PCT Int. Appl., 109pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009103451	A1	20090827	WO 2009-EP962	20090212
	W: AE, AG, AL, AM, AO, AT, AU , AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	EP 2092825	A1	20090826	EP 2008-3156	20080221
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, AL, BA, MK, RS				

PRAI EP 2008-3156 A 20080221

OS MARPAT 151:281654

AB Herbicide combinations comprise effective amts. of (A) ≥ 1 amino-s-triazine (I or salts thereof) and (B) ≥ 1 herbicide selected from thien carbazone, tembotrione, SYN-523, pyroxsulam, penoxsulam, SYN-449, pyrasulfotole, trifloxysulfuron, saflufenacil, aminopyralid, ethofumesate, aminocyclopyrachlor, and pyroxasulfone (KIH-485). In formula I, R1 = H or CZ1Z2Z3, where Z1 = H, halo, (halo)alkyl, etc.; Z2 = H, halo, alkyl, or alkoxy; or Z1 and Z2 can be part of a cycloalk(en)yl radical; Z3 = H, halo, alkyl, or alkoxy; R2, R3 independently = H, (halo)alkyl, (halo)alkenyl, etc.; R4 = H, C1-6 alkyl or alkoxy; R5-R8 independently = H, (halo)alkyl, halo, (halo)alkoxy, or CN; and A = CH2, O, or a direct bond. The active ingredients are applied jointly or sep. as preemergence and/or postemergence herbicides to control weeds or regulate plant growth. Thus, 2-amino-4-[(1R,2S)-2,6-dimethylindan-1-ylamino]-6-[(1R)-1-fluoroethyl]-1,3,5-triazine + thien carbazone-Me at 0.2 + 0.5 g/ha showed synergistic herbicidal action against Ipomoea hederifolia.

IT 1182056-72-9

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
 (as synergistic herbicide)

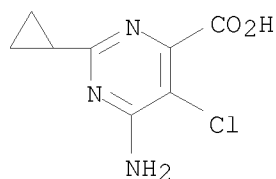
RN 1182056-72-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with N2-[(1R,2S)-2,3-dihydro-2,6-dimethyl-1H-inden-1-yl]-6-[(1R)-1-fluoroethyl]-1,3,5-triazine-2,4-diamine (CA INDEX NAME)

CM 1

CRN 858956-08-8

CMF C8 H8 Cl N3 O2

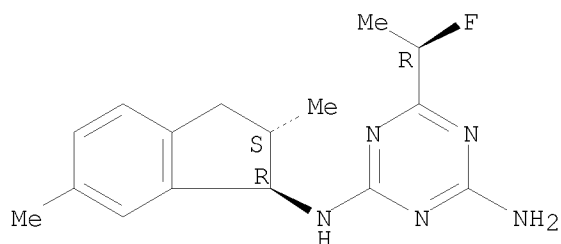


CM 2

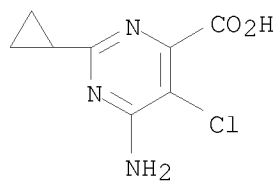
CRN 730979-19-8

CMF C16 H20 F N5

Absolute stereochemistry.



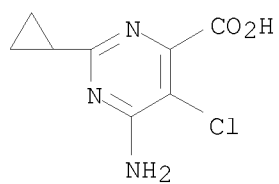
IT 858956-08-8, Aminocyclopyrachlor 858956-08-8D,
 Aminocyclopyrachlor, esters and salts
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
 (Biological study); USES (Uses)
 (synergistic combinations of diamino-s-triazines and other herbicides)
 RN 858956-08-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX
 NAME)



RN 858956-08-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX
 NAME)

10/581,897 (amended)



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

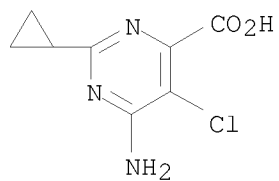
L10 ANSWER 3 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2009:1040879 CAPLUS
 DN 151:281649
 TI Herbicidal combinations comprising a herbicide of the class of the
 diamino-s-triazines
 IN Hacker, Erwin; Hess, Martin; Hills, Martin; Bonfig-Picard, Georg; Auler,
 Thomas
 PA Bayer Cropscience Aktiengesellschaft, Germany
 SO Eur. Pat. Appl., 61pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 2092825	A1	20090826	EP 2008-3156	20080221
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, AL, BA, MK, RS				
	WO 2009103451	A1	20090827	WO 2009-EP962	20090212
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRAI EP 2008-3156 A 20080221

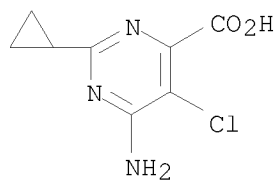
AB Herbicide combinations comprise effective amts. of (A) ≥ 1 amino-s-triazine (I or salts thereof) and (B) ≥ 1 herbicide selected from thien carbazone, tembotrione, SYN-523, pyroxsulam, penoxsulam, SYN-449, pyrasulfotole, trifloxysulfuron, saflufenacil, aminopyralid, ethofumesate, aminocyclopyrachlor, and pyroxasulfone (KIH-485). In formula I, R1 = H or CZ1Z2Z3, where Z1 = H, halo, (halo)alkyl, etc.; Z2 = H, halo, alkyl, or alkoxy; or Z1 and Z2 can be part of a cycloalk(en)yl radical; Z3 = H, halo, alkyl, or alkoxy; R2, R3 independently = H, (halo)alkyl, (halo)alkenyl, etc.; R4 = H, C1-6 alkyl or alkoxy; R5-R8 independently = H, (halo)alkyl, halo, (halo)alkoxy, or CN; and A = CH2, O, or a direct bond. The active ingredients are applied jointly or sep. as preemergence and/or postemergence herbicides to control weeds or regulate plant growth. Thus, 2-amino-4-[(1R,2S)-2,6-dimethylindan-1-ylamino]-6-[(1R)-1-fluoroethyl]-1,3,5-triazine + thien carbazone-Me at 0.2 + 0.5 g/ha showed synergistic herbicidal action against Ipomoea hederifolia.

IT 858956-08-8, Aminocyclopyrachlor 858956-08-8D,
 Aminocyclopyrachlor, esters and salts
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
 (synergistic combinations of diamino-s-triazines and other herbicides)
 RN 858956-08-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



RN 858956-08-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2009:793393 CAPLUS
 DN 151:95127
 TI Pyrimidine derivatives as herbicides
 IN Aspinall, Mary Bernadette; Mound, William Roderick; Wailes, Jeffrey
 Steven; Whittingham, William Guy; Williams, John; Winn, Caroline Louise;
 Worthington, Paul Antony
 PA Syngenta Limited, UK
 SO PCT Int. Appl., 241 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009081112	A2	20090702	WO 2008-GB4184	20081218
	WO 2009081112	A3	20091210		
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	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			

PRAI GB 2007-25218 A 20071224

OS MARPAT 151:95127

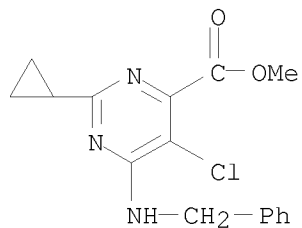
AB The present invention relates to substituted pyrimidine derivs., as well as N-oxides and agriculturally acceptable salts thereof, and their use to control undesired plant growth, in particular in crop plants. The invention extends to herbicidal compns. comprising such compds., N-oxides and/or salts as well as mixts. of the same with one or more further active ingredient (such as, for example, an herbicide, fungicide, insecticide and/or plant growth regulator) and/or a safener. Thus, 5-chloro-2-cyclopropyl-4-cyclopropylamino-6-methoxycarbonylpyrimidine at 1000 g/ha gave complete control of Solanum nigrum and Amaranthus retroflexus.

IT	1165931-78-1P	1165932-26-2P	1165932-27-3P
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RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation and use as herbicide)

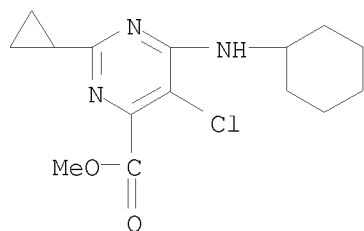
RN 1165931-78-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-
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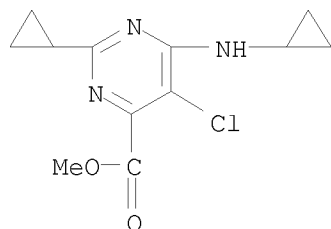
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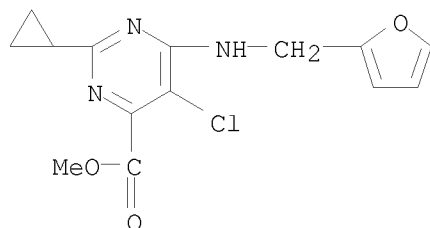
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(cyclopropylamino)-, methyl ester (CA INDEX NAME)

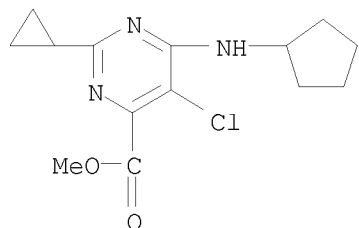


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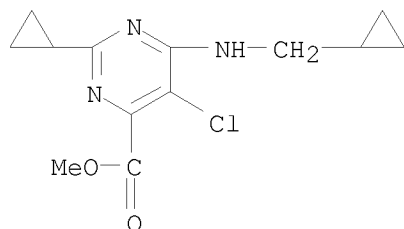
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-furanylmethyl)amino]-, methyl ester (CA INDEX NAME)



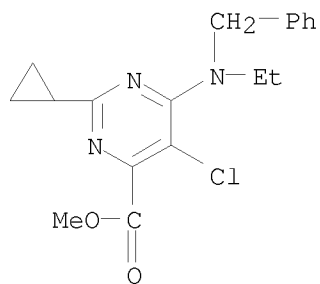
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 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-(cyclopentylamino)-2-cyclopropyl-,
 methyl ester (CA INDEX NAME)



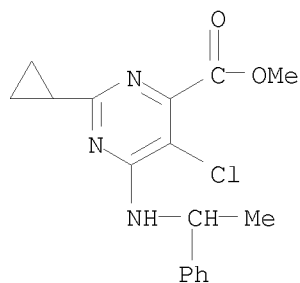
RN 1165932-36-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-
 [(cyclopropylmethyl)amino]-, methyl ester (CA INDEX NAME)



RN 1165932-37-5 CAPLUS
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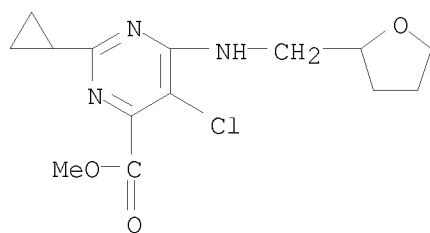


RN 1165932-38-6 CAPLUS
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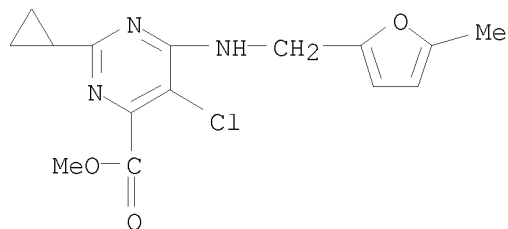
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(tetrahydro-2-furanyl)methyl]amino]-, methyl ester (CA INDEX NAME)



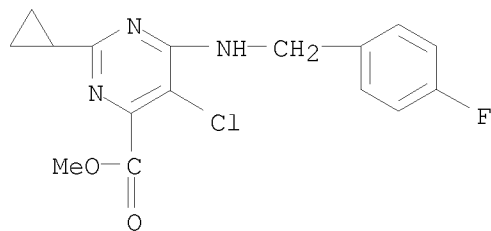
RN 1165932-41-1 CAPLUS

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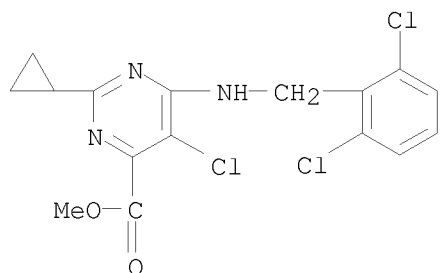


RN 1165932-49-9 CAPLUS

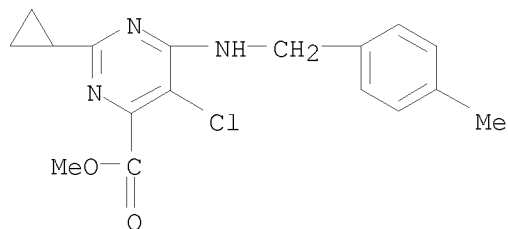
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(4-fluorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



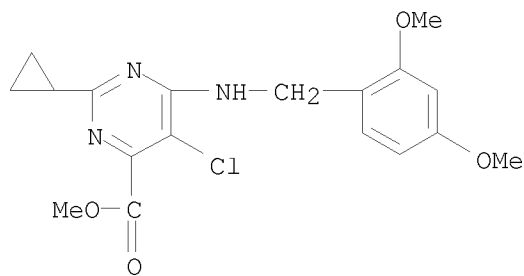
RN 1165932-55-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(2,6-dichlorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



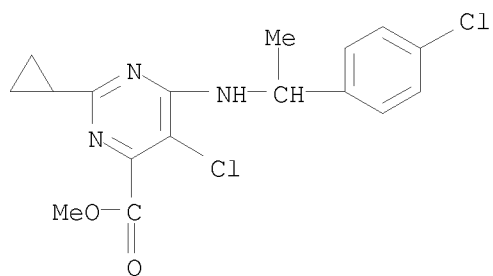
RN 1165932-72-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(4-methylphenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



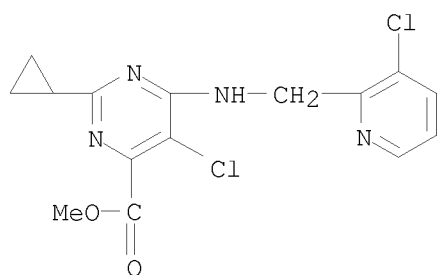
RN 1165932-90-0 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(2,4-dimethoxyphenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



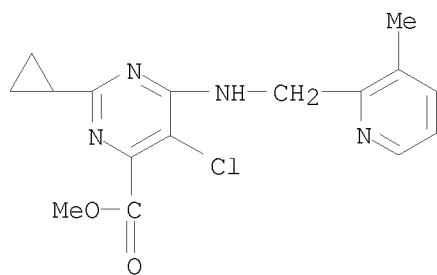
RN 1165933-02-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[1-(4-chlorophenyl)ethyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



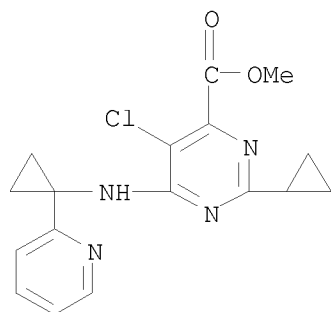
RN 1165933-28-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[3-chloro-2-pyridinyl)methyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165933-29-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3-methyl-2-pyridinyl)methyl]amino]-, methyl ester (CA INDEX NAME)

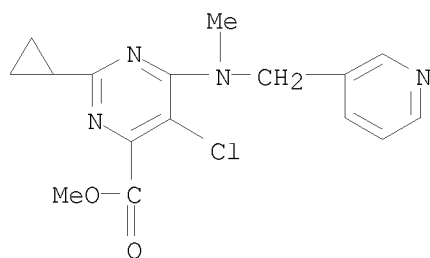


RN 1165933-32-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(2-pyridinyl)cyclopropyl]amino]-, methyl ester (CA INDEX NAME)



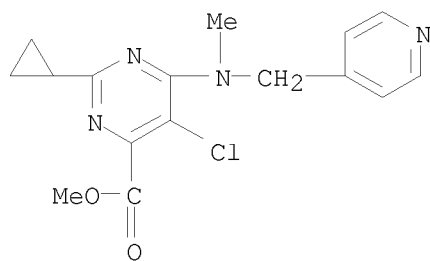
RN 1165934-89-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl(3-pyridinylmethyl)amino]-, methyl ester (CA INDEX NAME)



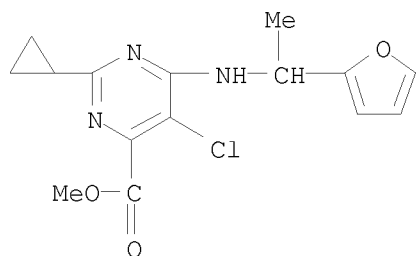
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl(4-pyridinylmethyl)amino]-, methyl ester (CA INDEX NAME)



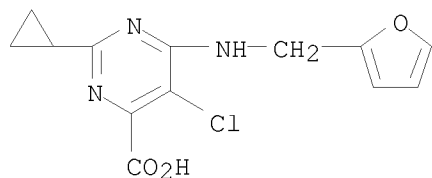
RN 1165935-16-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(2-furanyl)ethyl]amino]-, methyl ester (CA INDEX NAME)



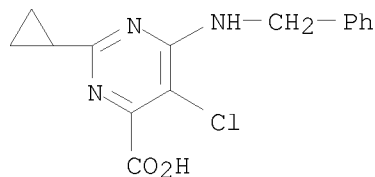
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-furanylmethyl)amino]- (CA INDEX NAME)



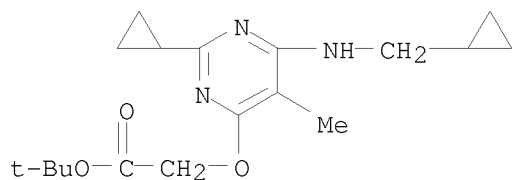
RN 1165936-13-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(phenylmethyl)amino]- (CA INDEX NAME)



RN 1165936-42-4 CAPLUS

CN Acetic acid, 2-[[2-cyclopropyl-6-[(cyclopropylmethyl)amino]-5-methyl-4-pyrimidinyl]oxy]-, 1,1-dimethylethyl ester (CA INDEX NAME)

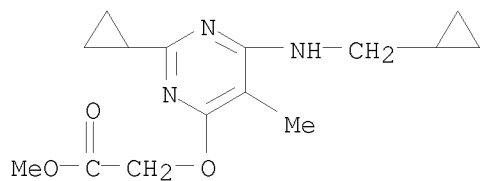


RN 1165936-45-7 CAPLUS

CN Acetic acid, 2-[[2-cyclopropyl-6-[(cyclopropylmethyl)amino]-5-methyl-4-pyrimidinyl]oxy]-, methyl ester, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

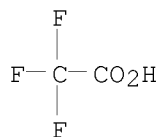
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CM 2

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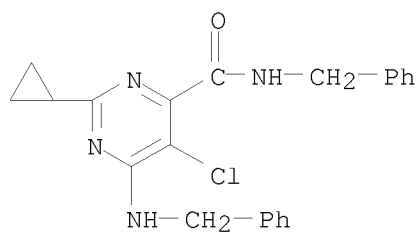
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RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

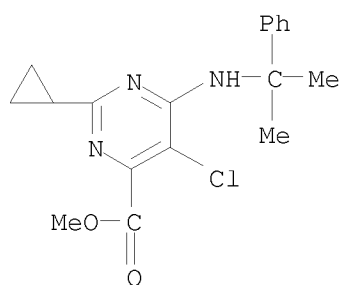
(preparation and use as herbicide)

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 [(phenylmethyl)amino]- (CA INDEX NAME)



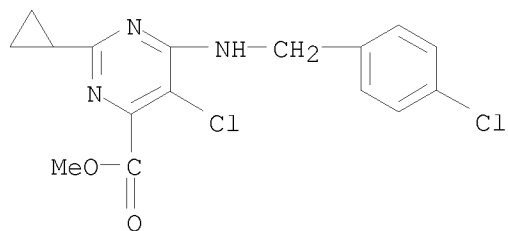
RN 1165932-28-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-methyl-1-phenylethyl)amino]-, methyl ester (CA INDEX NAME)



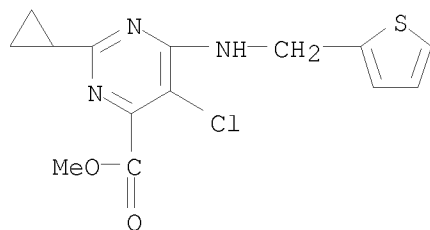
RN 1165932-29-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[4-chlorophenyl)methyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



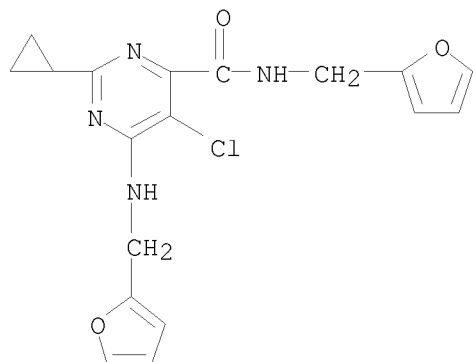
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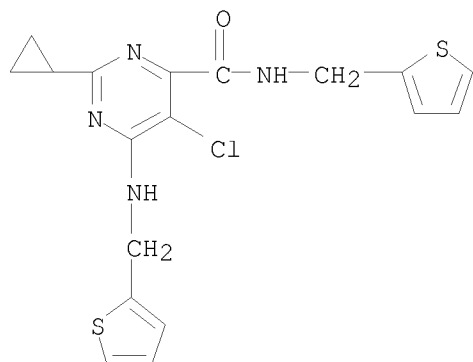
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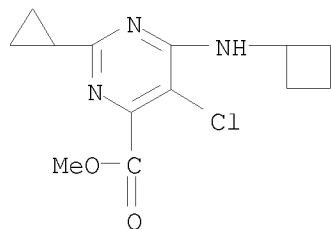
RN 1165932-33-1 CAPLUS

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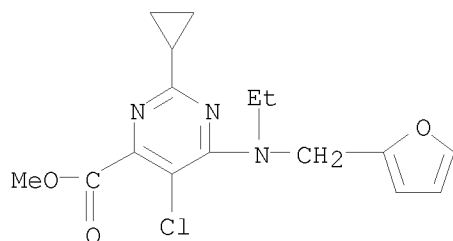
CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-(cyclobutylamino)-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165932-39-7 CAPLUS

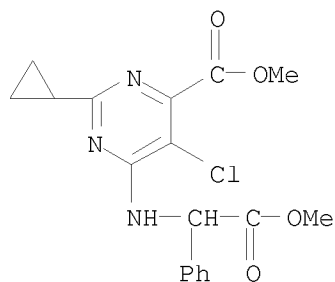
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl(2-

furanylmethyl)amino]-, methyl ester (CA INDEX NAME)



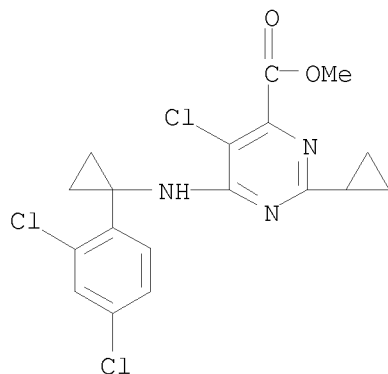
RN 1165932-42-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-methoxy-2-oxo-1-phenylethyl)amino]-, methyl ester (CA INDEX NAME)



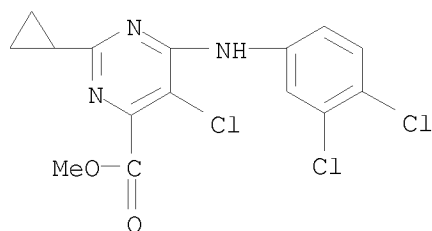
RN 1165932-43-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(2,4-dichlorophenyl)cyclopropyl]amino]-, methyl ester (CA INDEX NAME)



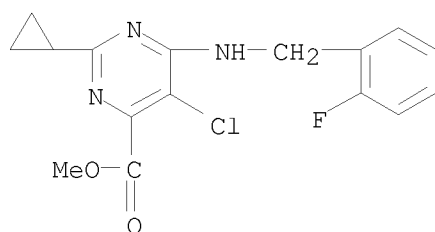
RN 1165932-44-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3,4-dichlorophenyl)amino]-, methyl ester (CA INDEX NAME)



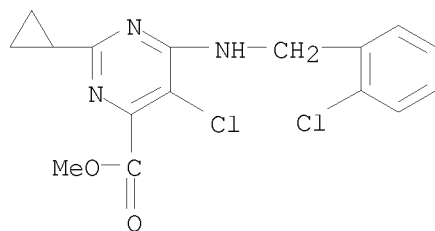
RN 1165932-45-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-fluorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



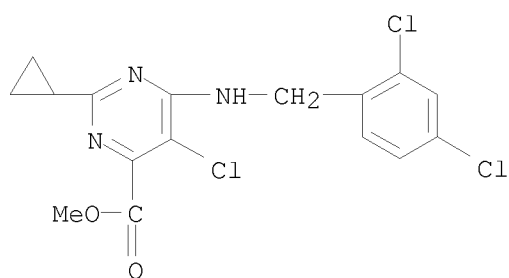
RN 1165932-46-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[2-chlorophenyl)methyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)

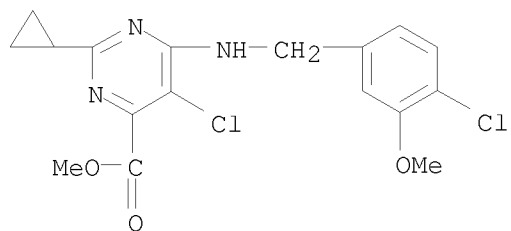


RN 1165932-47-7 CAPLUS

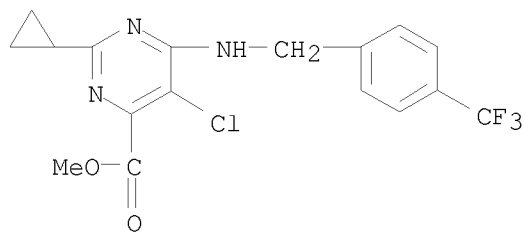
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2,4-dichlorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



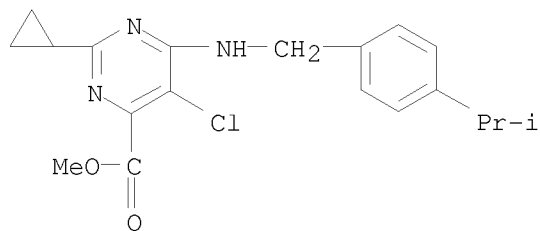
RN 1165932-50-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[[4-chloro-3-methoxyphenyl)methyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



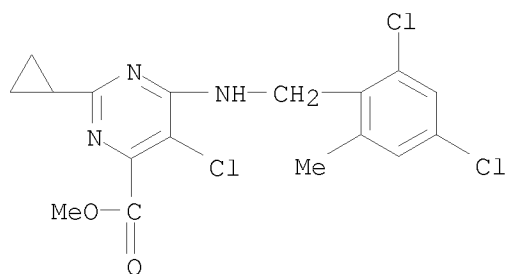
RN 1165932-51-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[4-(trifluoromethyl)phenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



RN 1165932-52-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[4-(1-methylethyl)phenyl)methyl]amino]-, methyl ester (CA INDEX NAME)

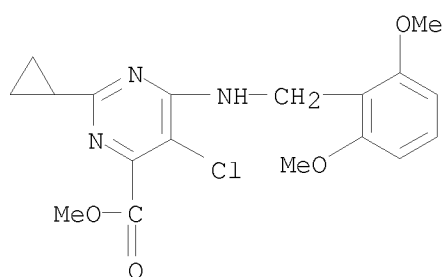


RN 1165932-53-5 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[2,4-dichloro-6-methylphenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



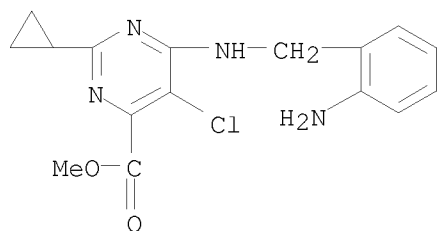
RN 1165932-54-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2,6-dimethoxyphenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



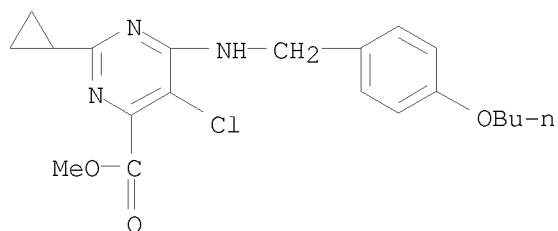
RN 1165932-56-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[2-aminophenyl)methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



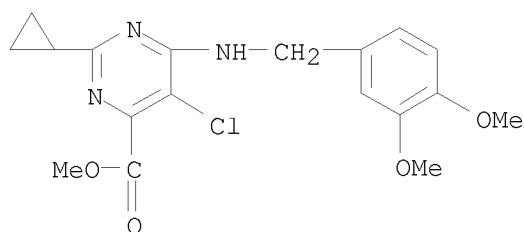
RN 1165932-57-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[4-butoxyphenyl)methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



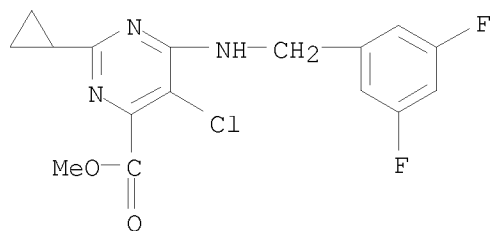
RN 1165932-58-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3,4-dimethoxyphenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



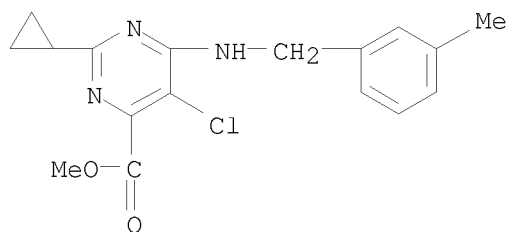
RN 1165932-59-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3,5-difluorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



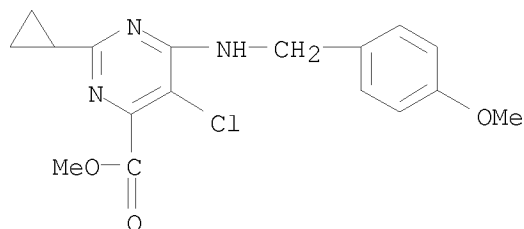
RN 1165932-60-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3-methylphenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



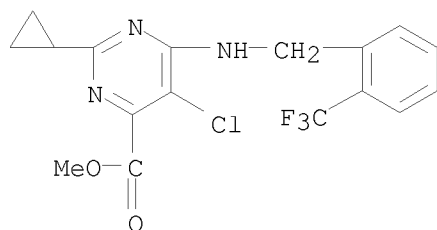
RN 1165932-61-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[4-methoxyphenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



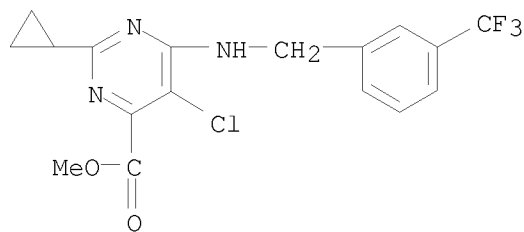
RN 1165932-62-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[2-(trifluoromethyl)phenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



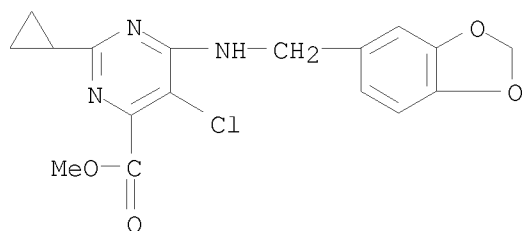
RN 1165932-63-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[3-(trifluoromethyl)phenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



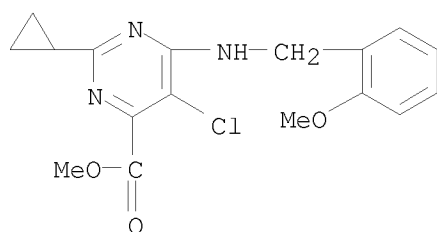
RN 1165932-64-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[(1,3-benzodioxol-5-ylmethyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



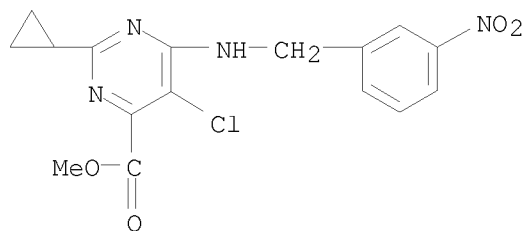
RN 1165932-65-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-methoxyphenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



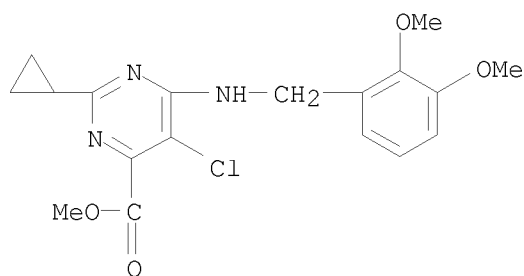
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3-methoxyphenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



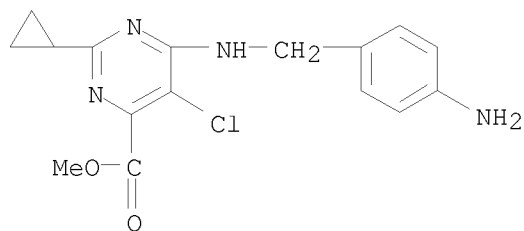
RN 1165932-67-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2,3-dimethoxyphenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



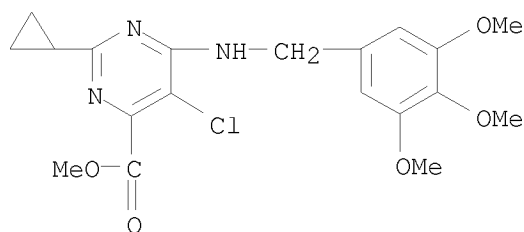
RN 1165932-68-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[4-aminophenyl)methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



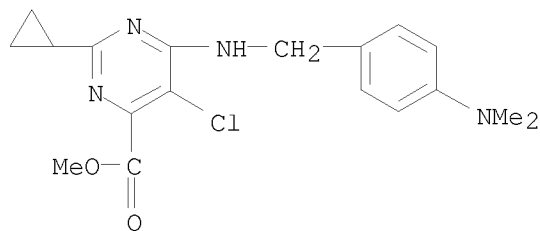
RN 1165932-69-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3,4,5-trimethoxyphenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



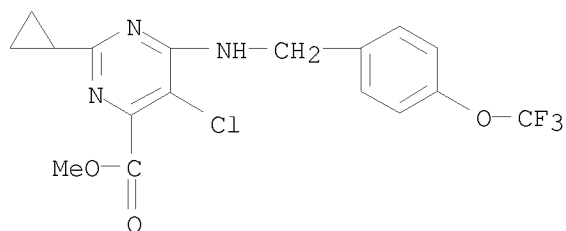
RN 1165932-70-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[4-(dimethylamino)phenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



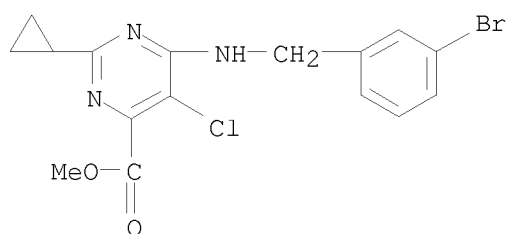
RN 1165932-71-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[4-(trifluoromethoxy)phenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



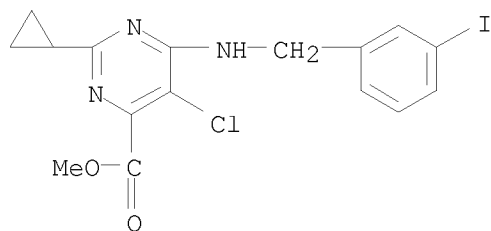
RN 1165932-73-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[[3-bromophenyl)methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



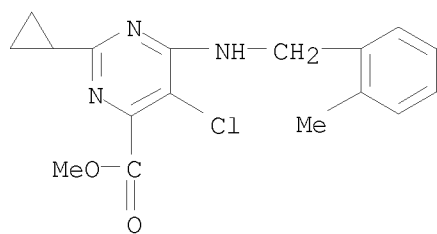
RN 1165932-74-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[3-iodophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



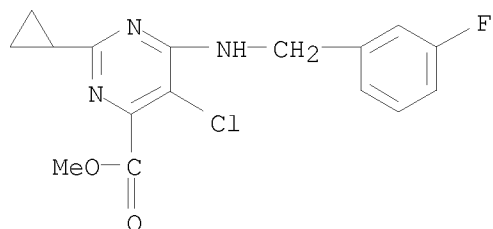
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[2-methylphenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



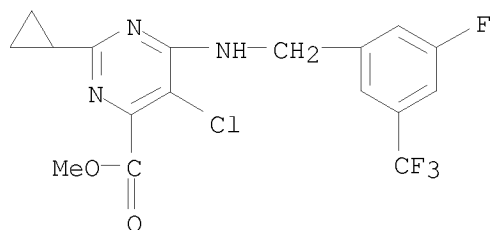
RN 1165932-76-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3-fluorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



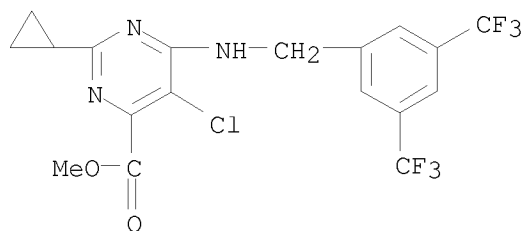
RN 1165932-77-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[3-fluoro-5-(trifluoromethyl)phenyl]methyl]amino]-, methyl ester (CA INDEX NAME)



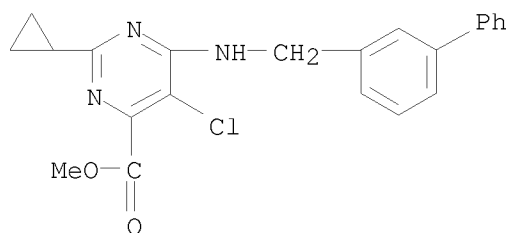
RN 1165932-78-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[[3,5-bis(trifluoromethyl)phenyl]methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



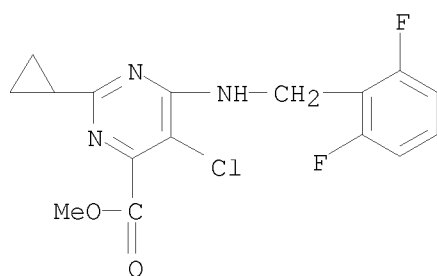
RN 1165932-79-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[[1,1'-biphenyl]-3-ylmethyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



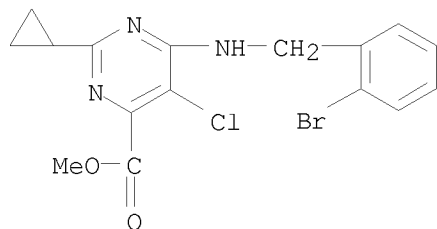
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2,6-difluorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



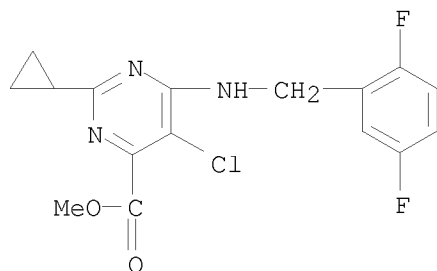
RN 1165932-81-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[2-(2-bromophenyl)methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



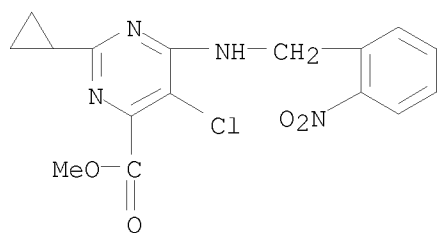
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2,5-difluorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



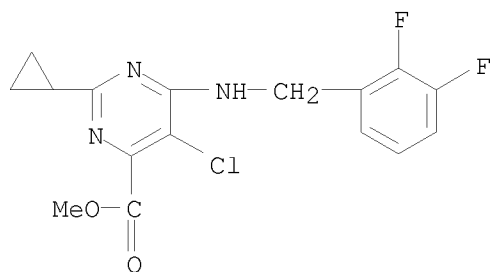
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-nitrophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



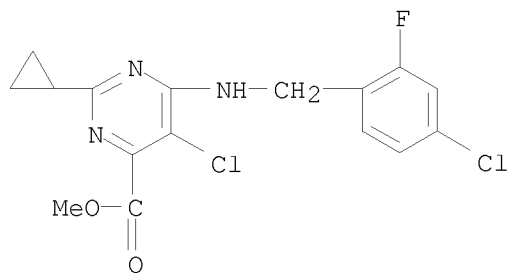
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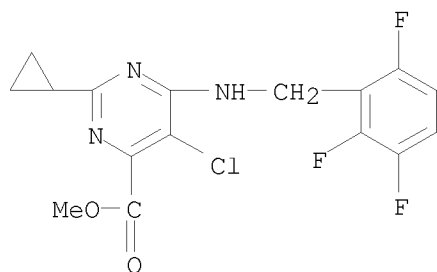
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[4-chloro-2-fluorophenyl)methyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



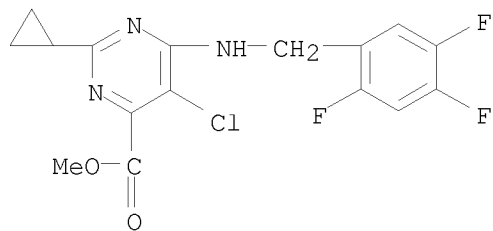
RN 1165932-86-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2,3,6-trifluorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



RN 1165932-87-5 CAPLUS

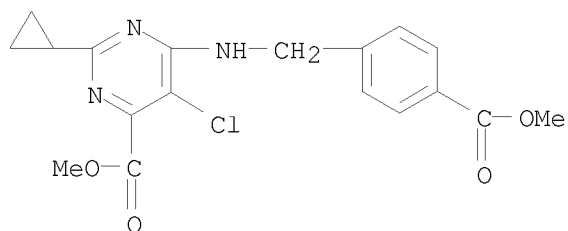
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RN 1165932-88-6 CAPLUS

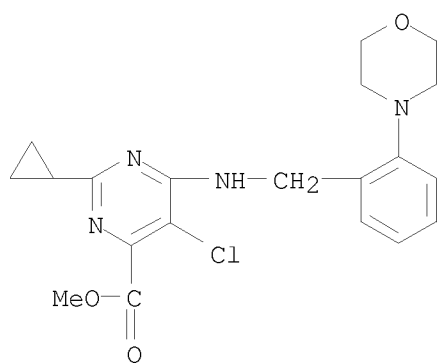
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[4-(methoxycarbonyl)phenyl)methyl]amino]-, methyl ester (CA INDEX NAME)

10/581,897 (amended)



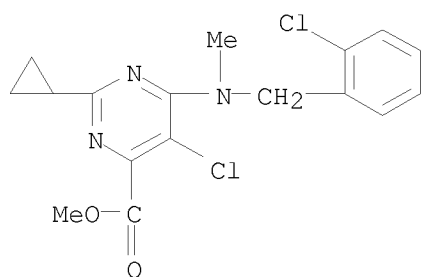
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[2-(4-morpholinyl)phenyl]methyl]amino]-, methyl ester (CA INDEX NAME)



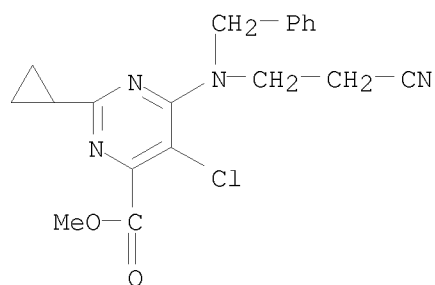
RN 1165932-91-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[[2-(2-chlorophenyl)methyl]methylamino]-2-cyclopropyl]-, methyl ester (CA INDEX NAME)



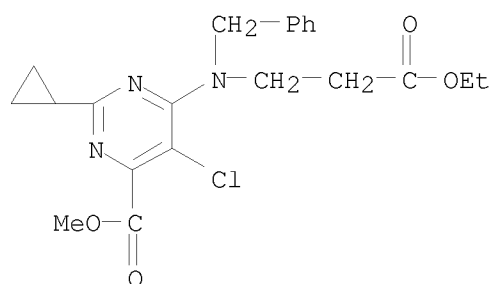
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[[2-(cyanoethyl)(phenylmethyl)amino]-2-cyclopropyl]-, methyl ester (CA INDEX NAME)



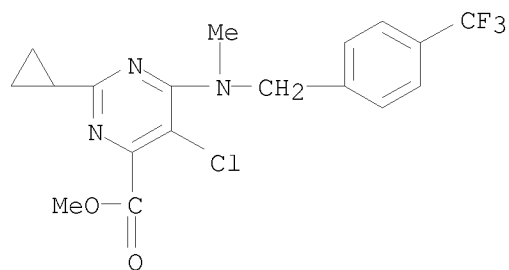
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-ethoxy-3-oxopropyl)(phenylmethyl)amino]-, methyl ester (CA INDEX NAME)



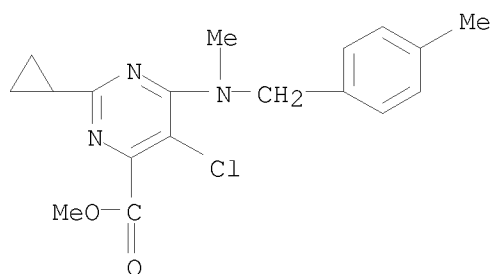
RN 1165932-95-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[[4-(trifluoromethyl)phenyl]methyl]amino]-, methyl ester (CA INDEX NAME)



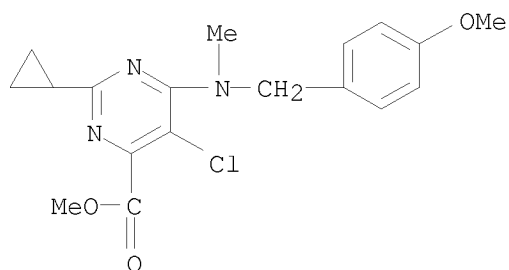
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[(4-methylphenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



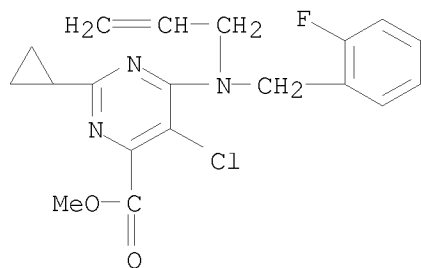
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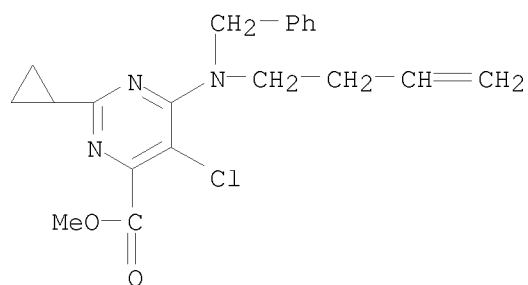
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-fluorophenyl)methyl]methylamino]-, methyl ester (CA INDEX NAME)



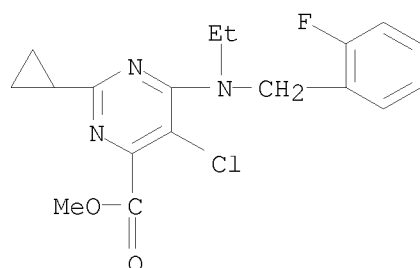
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CN 4-Pyrimidinecarboxylic acid, 6-[3-buten-1-yl(phenylmethyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



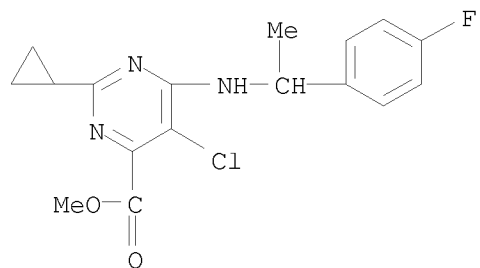
RN 1165933-00-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl[(2-fluorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



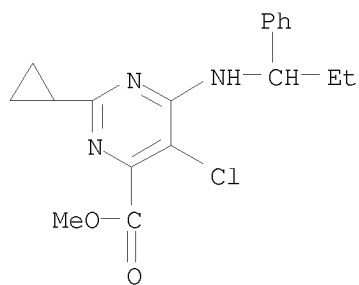
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(4-fluorophenyl)ethyl]amino]-, methyl ester (CA INDEX NAME)



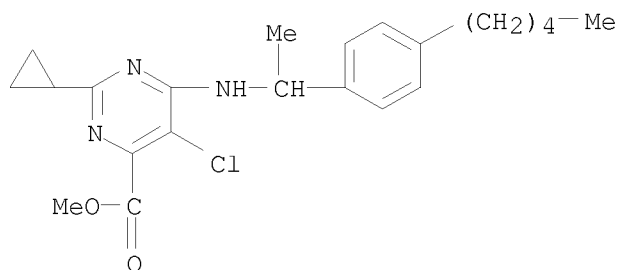
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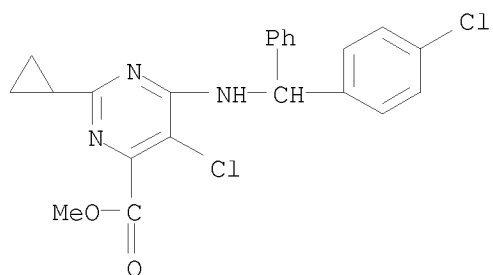
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RN 1165933-05-0 CAPLUS

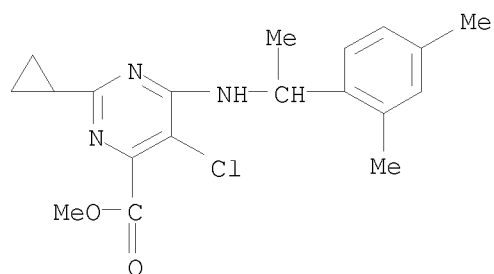
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RN 1165933-06-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(2,4-dimethylphenyl)ethyl]amino]-, methyl ester (CA INDEX NAME)

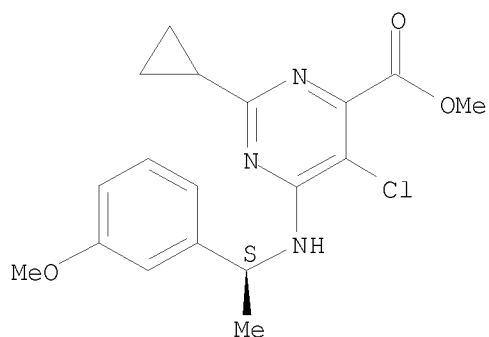
10/581,897 (amended)



RN 1165933-07-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1S)-1-(3-methoxyphenyl)ethyl]amino]-, methyl ester (CA INDEX NAME)

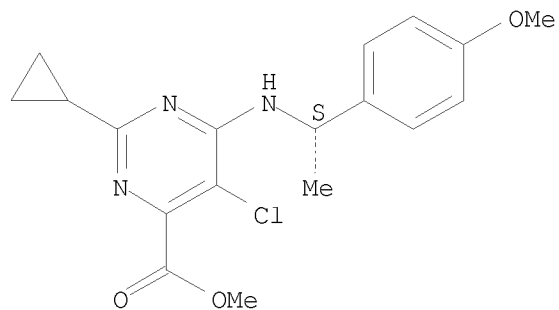
Absolute stereochemistry.



RN 1165933-08-3 CAPLUS

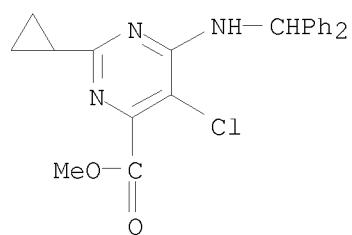
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1S)-1-(4-methoxyphenyl)ethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



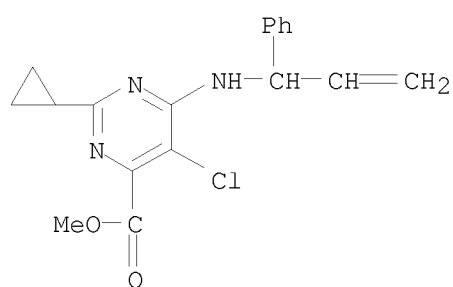
RN 1165933-09-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(diphenylmethyl)amino]-, methyl ester (CA INDEX NAME)



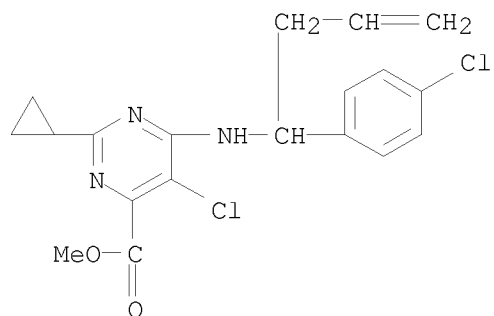
RN 1165933-10-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-phenyl-2-propen-1-yl)amino]-, methyl ester (CA INDEX NAME)



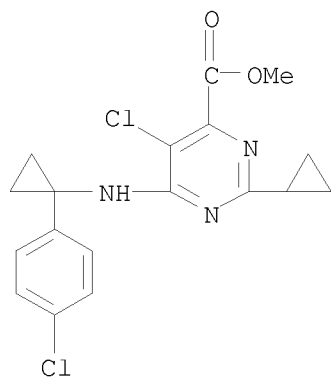
RN 1165933-11-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[1-(4-chlorophenyl)-3-buten-1-yl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



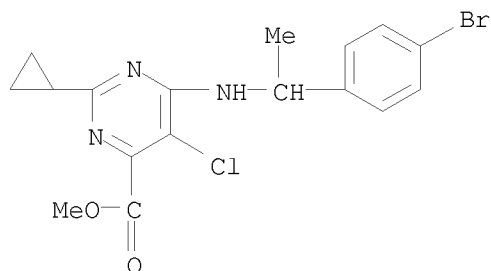
RN 1165933-12-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[1-(4-chlorophenyl)cyclopropyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



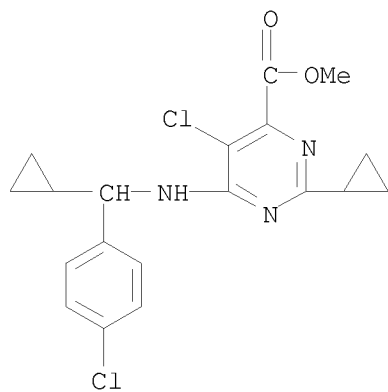
RN 1165933-13-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[1-(4-bromophenyl)ethyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165933-14-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[1-(4-chlorophenyl)cyclopropylmethyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)

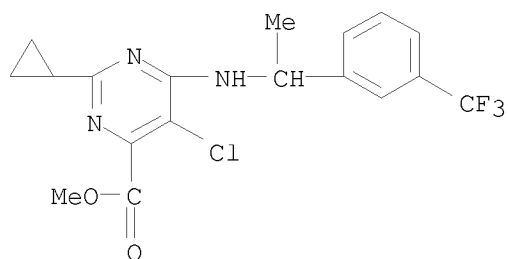


RN 1165933-15-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-[3-(4-chlorophenyl)cyclopropyl]ethyl]amino]-, methyl ester (CA INDEX NAME)

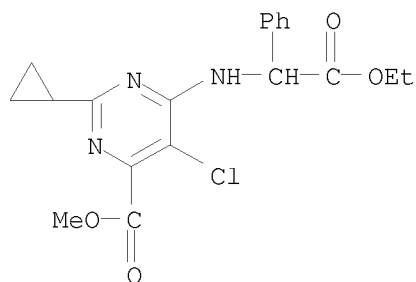
10/581,897 (amended)

(trifluoromethyl)phenyl]ethyl]amino]-, methyl ester (CA INDEX NAME)



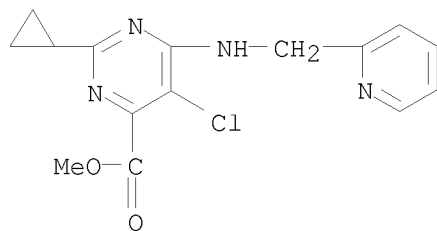
RN 1165933-16-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-ethoxy-2-oxo-1-phenylethyl)amino]-, methyl ester (CA INDEX NAME)



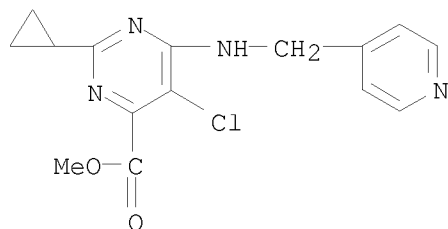
RN 1165933-17-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-pyridinylmethyl)amino]-, methyl ester (CA INDEX NAME)



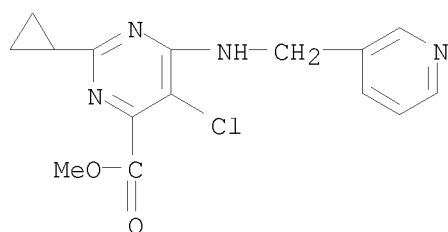
RN 1165933-18-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-pyridinylmethyl)amino]-, methyl ester (CA INDEX NAME)



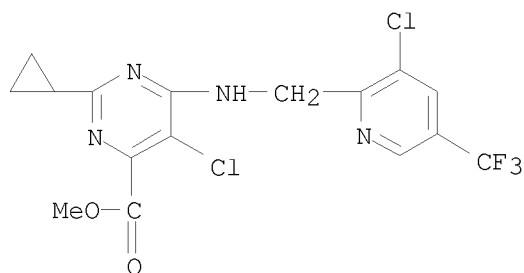
RN 1165933-19-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-pyridinylmethyl)amino]-, methyl ester (CA INDEX NAME)



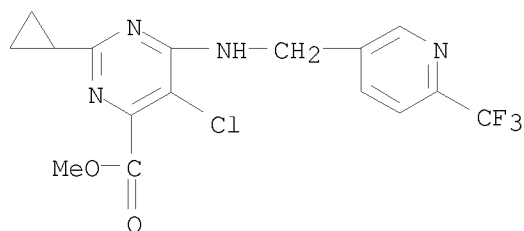
RN 1165933-20-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



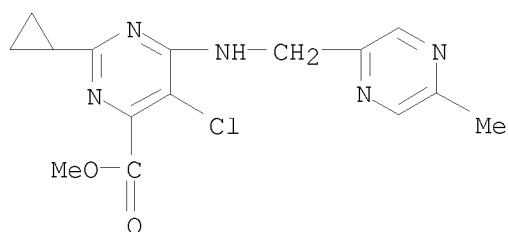
RN 1165933-21-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[6-(trifluoromethyl)-3-pyridinyl]methyl]amino]-, methyl ester (CA INDEX NAME)



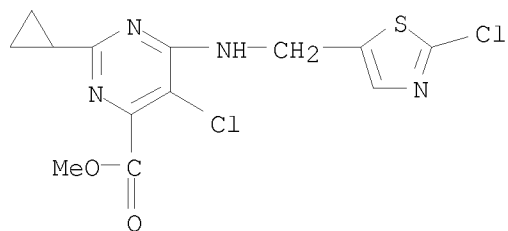
RN 1165933-22-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[5-methyl-2-pyrazinyl)methyl]amino]-, methyl ester (CA INDEX NAME)



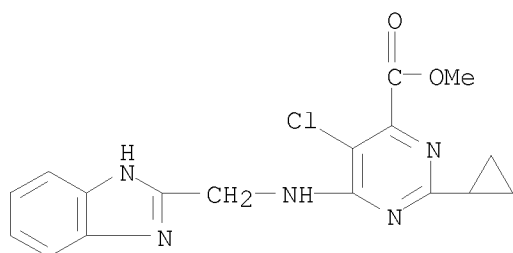
RN 1165933-23-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[2-chloro-5-thiazolyl)methyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



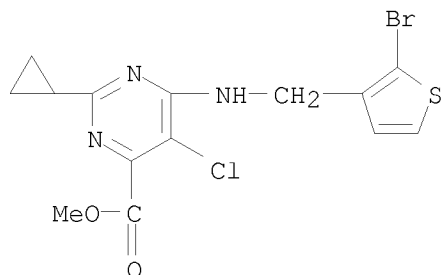
RN 1165933-24-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[(1H-benzimidazol-2-ylmethyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



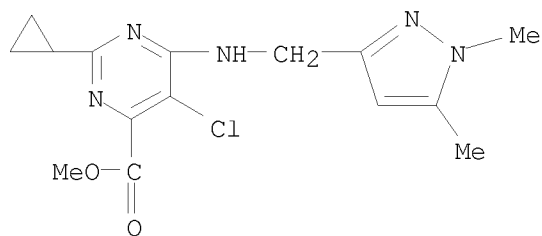
RN 1165933-25-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[(2-bromo-3-thienyl)methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



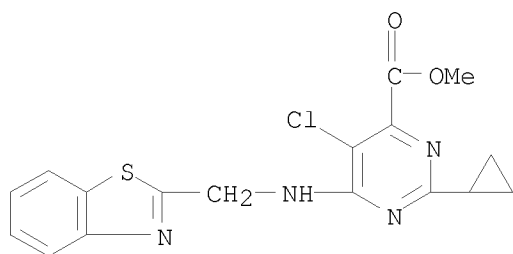
RN 1165933-26-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1,5-dimethyl-1H-pyrazol-3-yl)methyl]amino]-, methyl ester (CA INDEX NAME)



RN 1165933-27-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[(2-benzothiazolylmethyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)

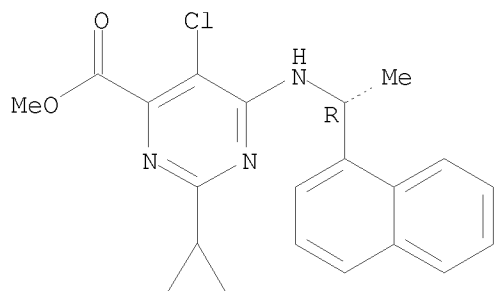


RN 1165933-30-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1R)-1-(1-naphthalenyl)ethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.

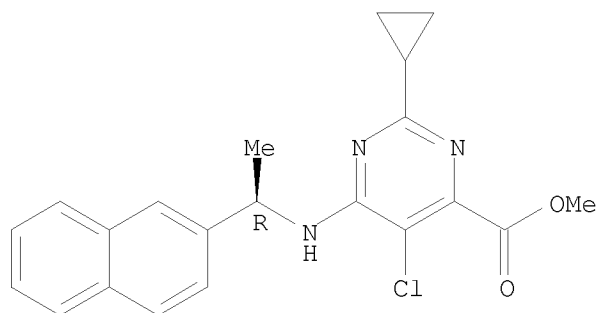
10/581,897 (amended)



RN 1165933-31-2 CAPLUS

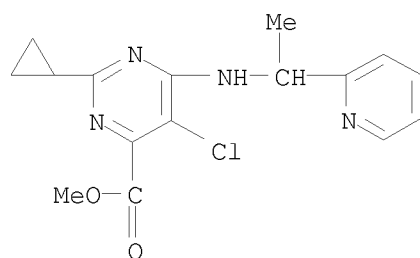
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(2-naphthalenyl)ethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



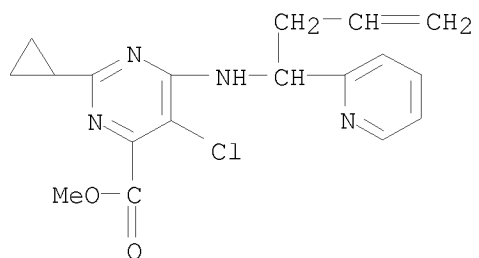
RN 1165933-33-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(2-pyridinyl)ethyl]amino]-, methyl ester (CA INDEX NAME)



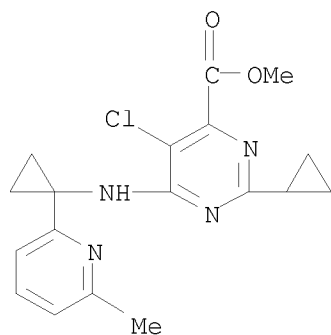
RN 1165933-34-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(2-pyridinyl)-3-buten-1-yl]amino]-, methyl ester (CA INDEX NAME)



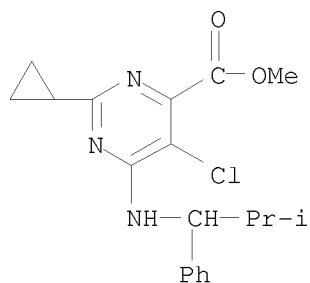
RN 1165933-36-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(6-methyl-2-pyridinyl)cyclopropyl]amino]-, methyl ester (CA INDEX NAME)



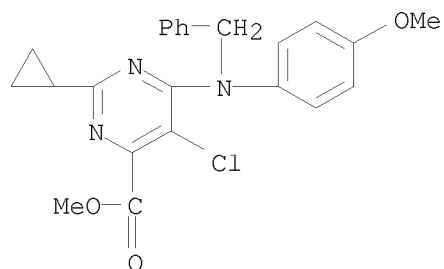
RN 1165933-37-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-methyl-1-phenylpropyl)amino]-, methyl ester (CA INDEX NAME)



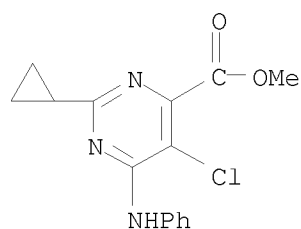
RN 1165933-38-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-methoxyphenyl)(phenylmethyl)amino]-, methyl ester (CA INDEX NAME)



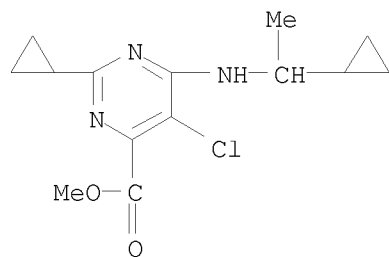
RN 1165933-39-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(phenylamino)-, methyl ester (CA INDEX NAME)



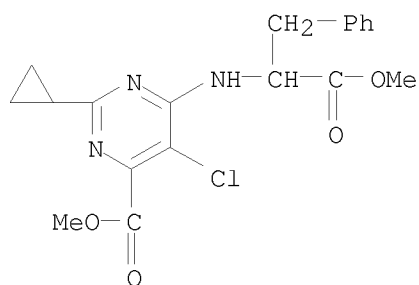
RN 1165933-40-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-cyclopropylethyl)amino]-, methyl ester (CA INDEX NAME)



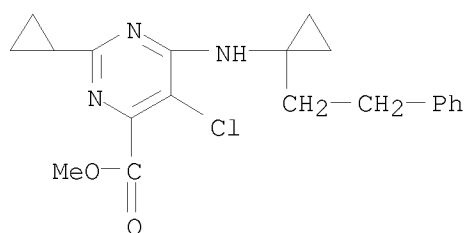
RN 1165933-41-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-methoxy-2-oxo-1-(phenylmethyl)ethyl]amino]-, methyl ester (CA INDEX NAME)



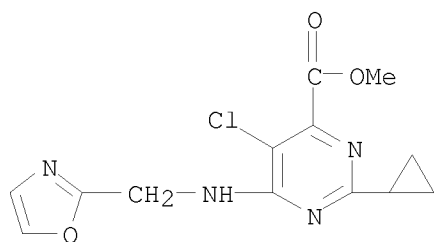
RN 1165933-42-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(2-phenylethyl)cyclopropyl]amino]-, methyl ester (CA INDEX NAME)



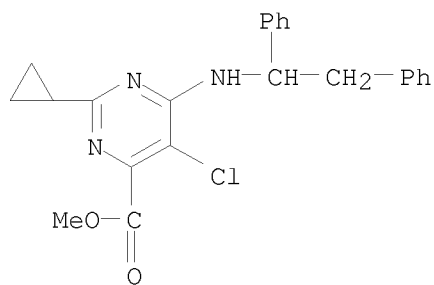
RN 1165933-43-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-oxazolylmethyl)amino]-, methyl ester (CA INDEX NAME)



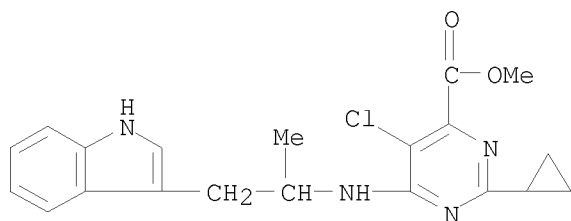
RN 1165933-44-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1,2-diphenylethyl)amino]-, methyl ester (CA INDEX NAME)



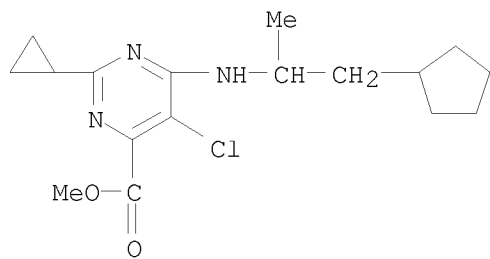
RN 1165933-45-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(1H-indol-3-yl)-1-methylethyl]amino]-, methyl ester (CA INDEX NAME)



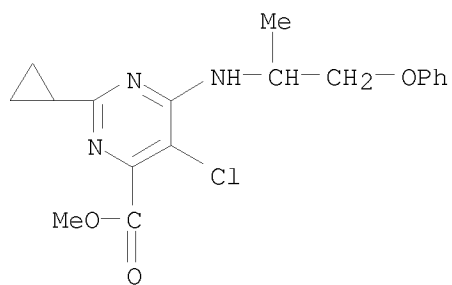
RN 1165933-46-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(2-cyclopentyl-1-methylethyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



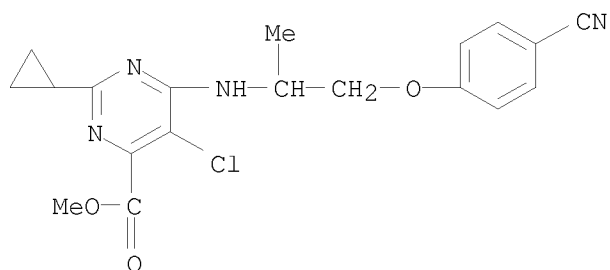
RN 1165933-47-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-methyl-2-phenoxyethyl)amino]-, methyl ester (CA INDEX NAME)



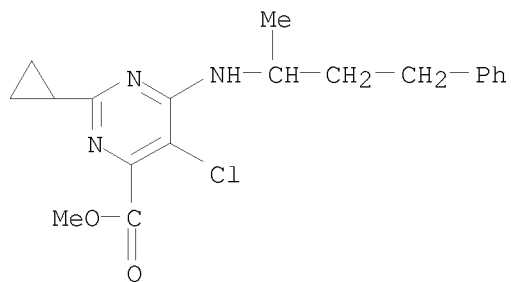
RN 1165933-48-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[2-(4-cyanophenoxy)-1-methylethyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165933-49-2 CAPLUS

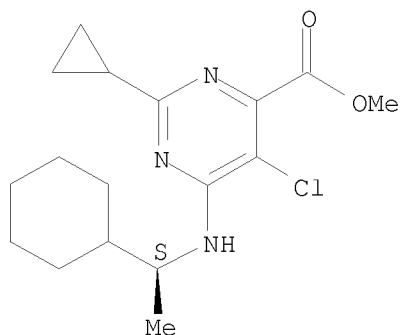
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-methyl-3-phenylpropyl)amino]-, methyl ester (CA INDEX NAME)



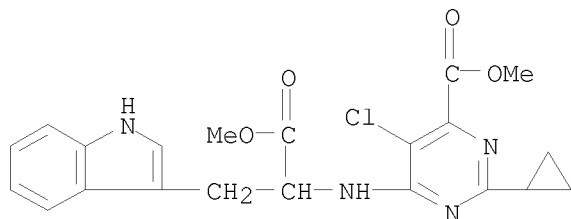
RN 1165933-50-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[(1S)-1-cyclohexylethyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.

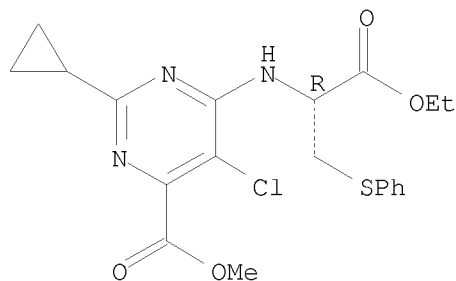


RN 1165933-51-6 CAPLUS
 CN Tryptophan, N-[5-chloro-2-cyclopropyl-6-(methoxycarbonyl)-4-pyrimidinyl]-, methyl ester (CA INDEX NAME)



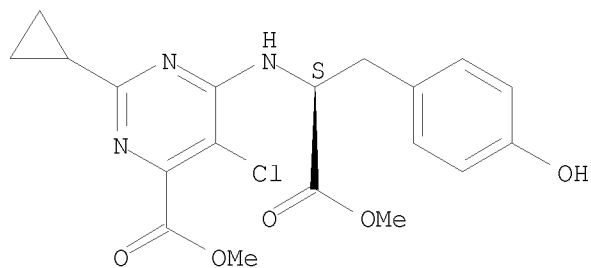
RN 1165933-52-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1R)-2-ethoxy-2-oxo-1-[(phenylthio)methyl]ethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 1165933-53-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1S)-1-[(4-hydroxyphenyl)methyl]-2-methoxy-2-oxoethyl]amino]-, methyl ester (CA INDEX NAME)

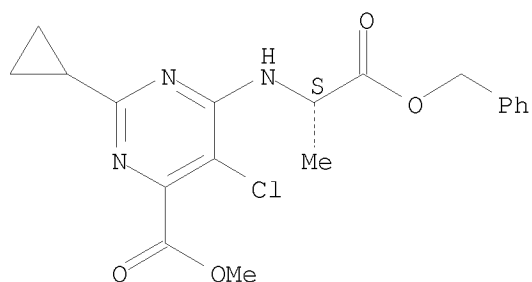
Absolute stereochemistry.



RN 1165933-54-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[(1S)-1-methyl-2-oxo-2-(phenylmethoxy)ethyl]amino]-, methyl ester (CA INDEX NAME)

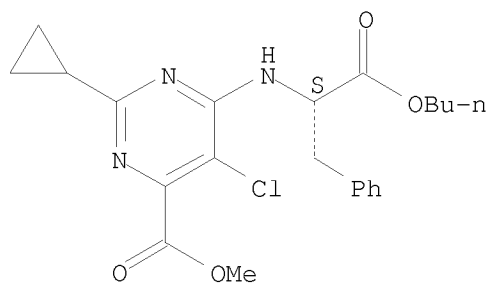
Absolute stereochemistry.



RN 1165933-55-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[[(1S)-2-butoxy-2-oxo-1-(phenylmethyl)ethyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)

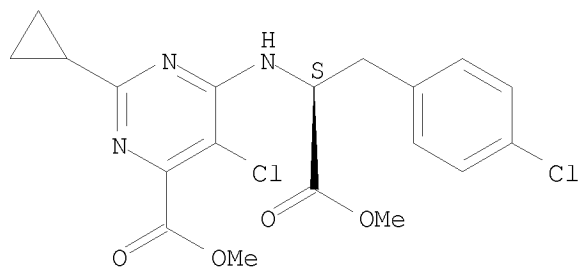
Absolute stereochemistry.



RN 1165933-56-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[[(1S)-1-[(4-chlorophenyl)methyl]-2-methoxy-2-oxoethyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)

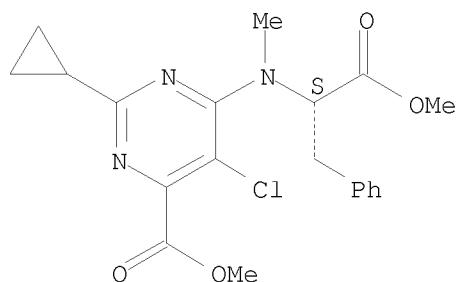
Absolute stereochemistry.



RN 1165933-57-2 CAPLUS

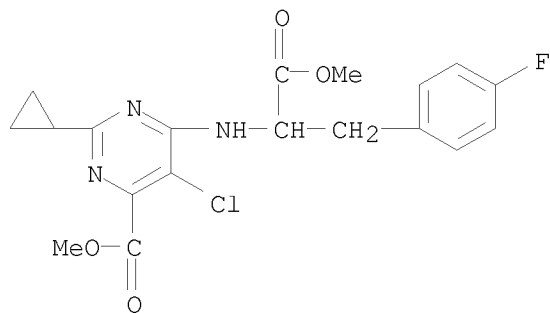
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(4-chlorophenyl)ethyl]methylamino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



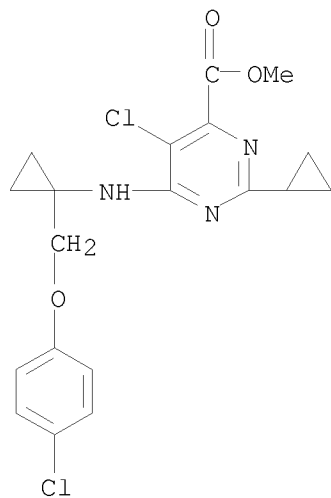
RN 1165933-58-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(4-fluorophenyl)methyl]-2-methoxy-2-oxoethyl]amino]-, methyl ester (CA INDEX NAME)



RN 1165933-59-4 CAPLUS

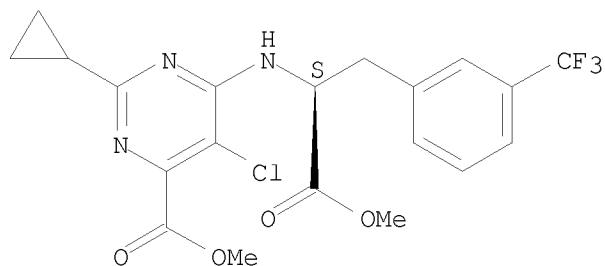
CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[1-(4-chlorophenoxy)methyl]cyclopropyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165933-60-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1S)-2-methoxy-2-oxo-1-[[3-(trifluoromethyl)phenyl]methyl]ethyl]amino]-, methyl ester (CA INDEX NAME)

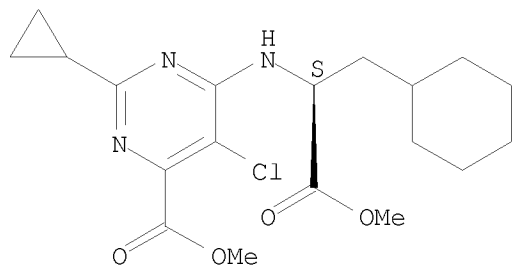
Absolute stereochemistry.



RN 1165933-61-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[(1S)-1-(cyclohexylmethyl)-2-methoxy-2-oxoethyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.

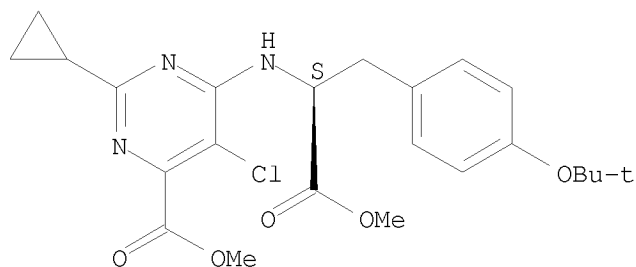


RN 1165933-63-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1S)-1-[[4-(1,1-

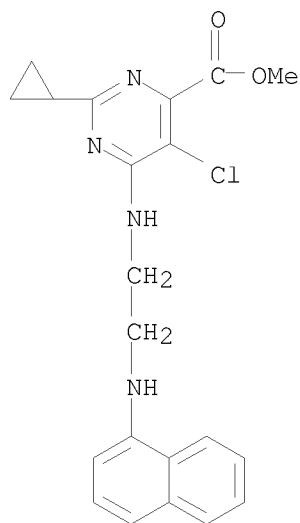
dimethylethoxy)phenyl]methyl]-2-methoxy-2-oxoethyl]amino]-, methyl ester
(CA INDEX NAME)

Absolute stereochemistry.



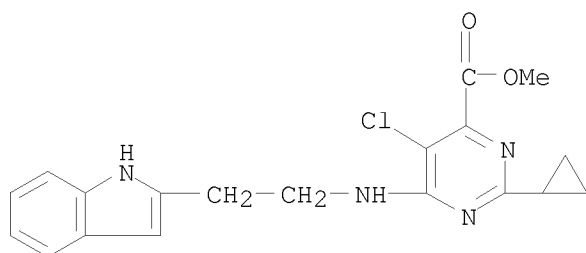
RN 1165933-64-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(1-naphthalenylamino)ethyl]amino]-, methyl ester (CA INDEX NAME)

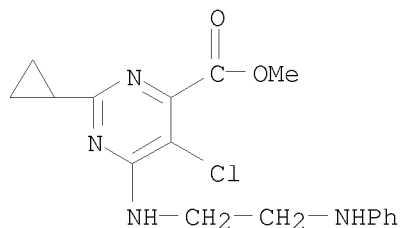


RN 1165933-65-2 CAPLUS

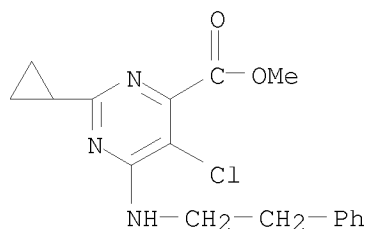
CN 4-[[2-(1H-indol-2-yl)ethyl]amino]-5-chloro-2-cyclopropyl-6-methoxy-2-oxoethyl]pyrimidin-3-yl methyl ester (CA INDEX NAME)



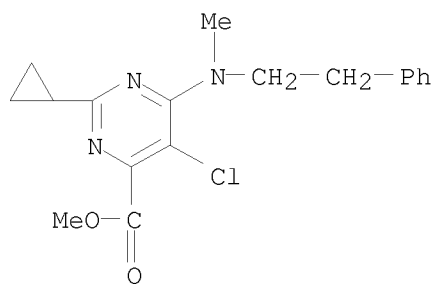
RN 1165933-66-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(phenylamino)ethyl]amino]-, methyl ester (CA INDEX NAME)



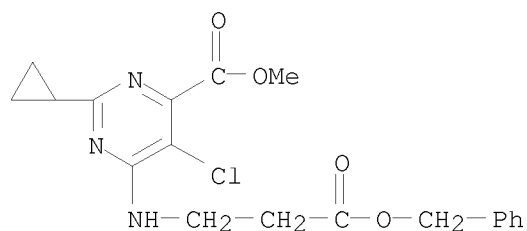
RN 1165933-67-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-phenylethyl)amino]-, methyl ester (CA INDEX NAME)



RN 1165933-68-5 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl(2-phenylethyl)amino]-, methyl ester (CA INDEX NAME)

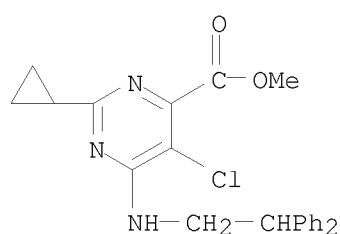


RN 1165933-69-6 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3-oxo-3-(phenylmethoxy)propyl]amino]-, methyl ester (CA INDEX NAME)



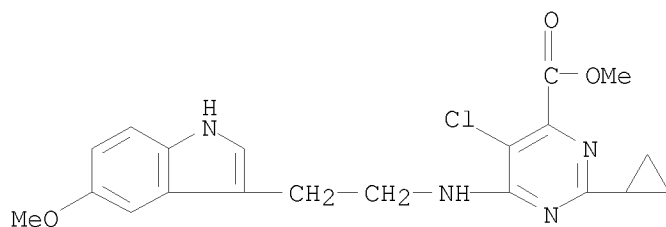
RN 1165933-71-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,2-diphenylethyl)amino]-, methyl ester (CA INDEX NAME)



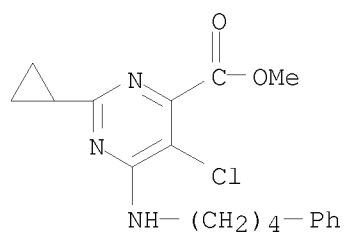
RN 1165933-72-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(5-methoxy-1H-indol-3-yl)ethyl]amino]-, methyl ester (CA INDEX NAME)



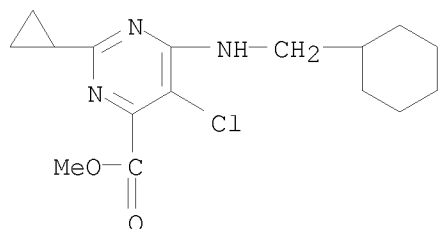
RN 1165933-73-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-phenylbutyl)amino]-, methyl ester (CA INDEX NAME)



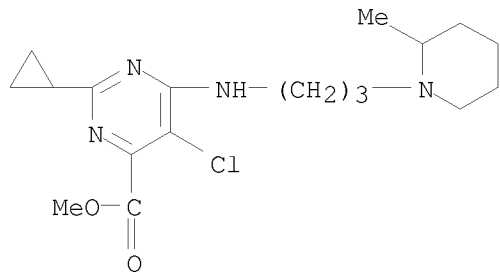
RN 1165933-74-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(cyclohexylmethyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



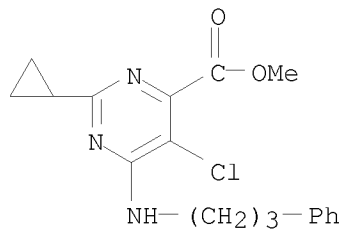
RN 1165933-75-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3-(2-methyl-1-piperidinyl)propyl]amino]-, methyl ester (CA INDEX NAME)



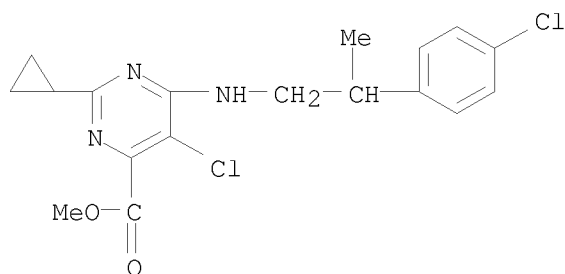
RN 1165933-76-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-phenylpropyl)amino]-, methyl ester (CA INDEX NAME)



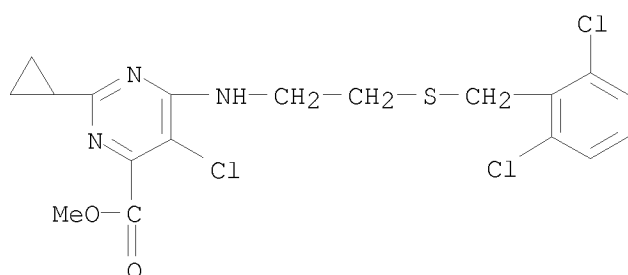
RN 1165933-77-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[2-(4-chlorophenyl)propyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



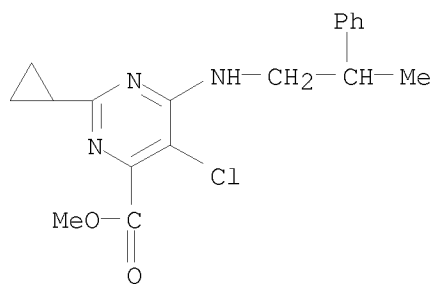
RN 1165933-78-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-[(2,6-dichlorophenyl)methyl]thio]ethyl]amino]-, methyl ester (CA INDEX NAME)



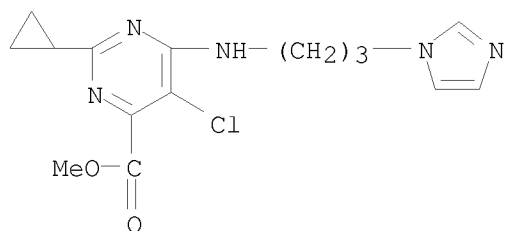
RN 1165933-79-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-phenylpropyl)amino]-, methyl ester (CA INDEX NAME)



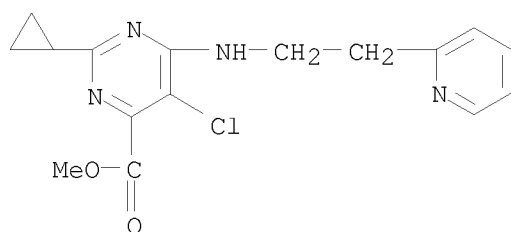
RN 1165933-80-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3-(1H-imidazol-1-yl)propyl]amino]-, methyl ester (CA INDEX NAME)



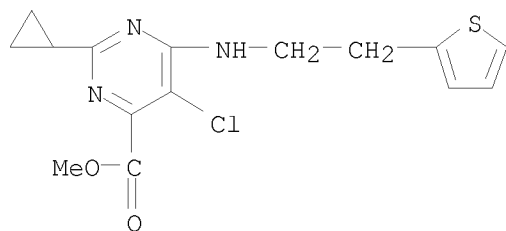
RN 1165933-81-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(2-pyridinyl)ethyl]amino]-, methyl ester (CA INDEX NAME)



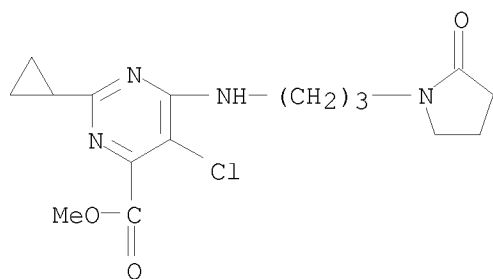
RN 1165933-82-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(2-thienyl)ethyl]amino]-, methyl ester (CA INDEX NAME)



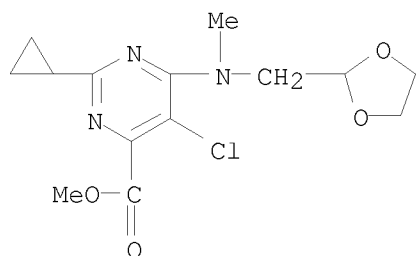
RN 1165933-83-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3-(2-oxo-1-pyrrolidinyl)propyl]amino]-, methyl ester (CA INDEX NAME)



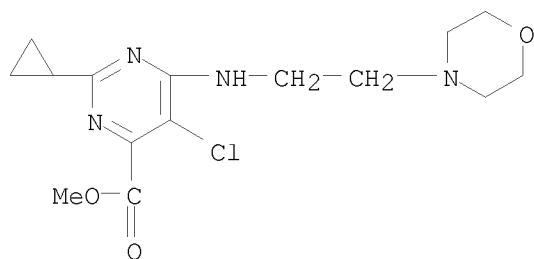
RN 1165933-84-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1,3-dioxolan-2-ylmethyl)methylamino]-, methyl ester (CA INDEX NAME)



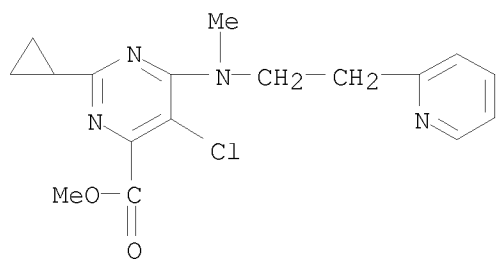
RN 1165933-85-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(4-morpholinyl)ethyl]amino]-, methyl ester (CA INDEX NAME)



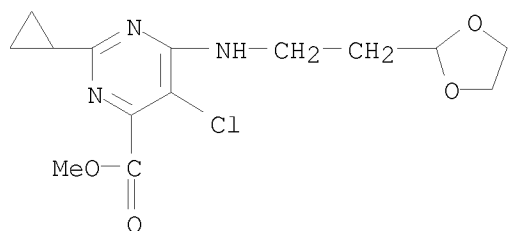
RN 1165933-86-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[2-(2-pyridinyl)ethyl]amino]-, methyl ester (CA INDEX NAME)

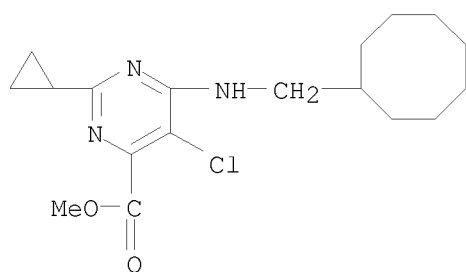


RN 1165933-87-8 CAPLUS

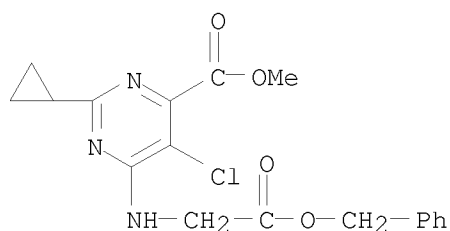
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(1,3-dioxolan-2-yl)ethyl]amino]-, methyl ester (CA INDEX NAME)



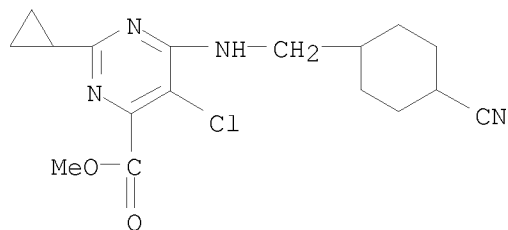
RN 1165933-88-9 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(cyclooctylmethyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165933-89-0 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-oxo-2-(phenylmethoxy)ethyl]amino]-, methyl ester (CA INDEX NAME)

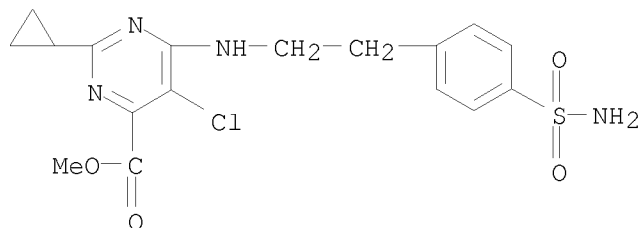


RN 1165933-90-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[4-cyanocyclohexyl)methyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



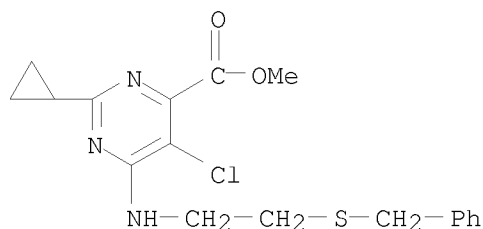
RN 1165933-91-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[2-[4-(aminosulfonyl)phenyl]ethyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



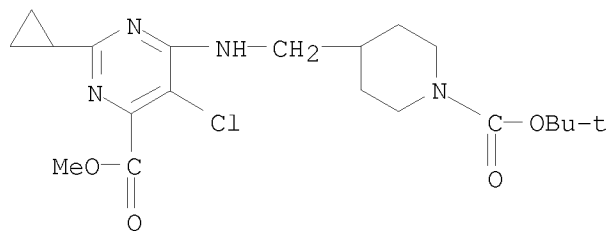
RN 1165933-92-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-[(phenylmethyl)thio]ethyl]amino]-, methyl ester (CA INDEX NAME)



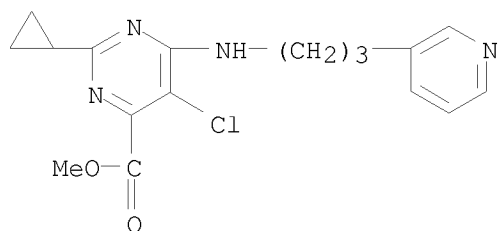
RN 1165933-93-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[1-[(1,1-dimethylethoxy)carbonyl]-4-piperidiny]methyl]amino]-, methyl ester (CA INDEX NAME)



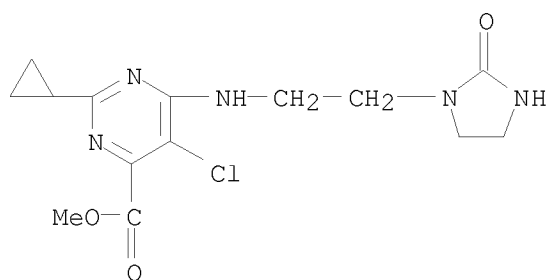
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3-(3-pyridinyl)propyl]amino]-, methyl ester (CA INDEX NAME)



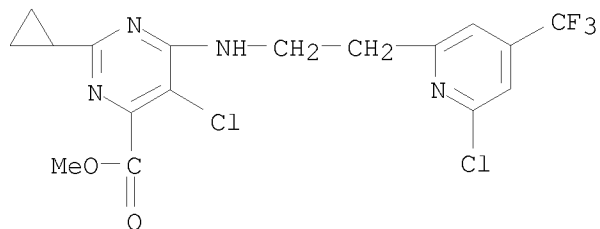
RN 1165933-95-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(2-oxo-1-imidazolidinyl)ethyl]amino]-, methyl ester (CA INDEX NAME)



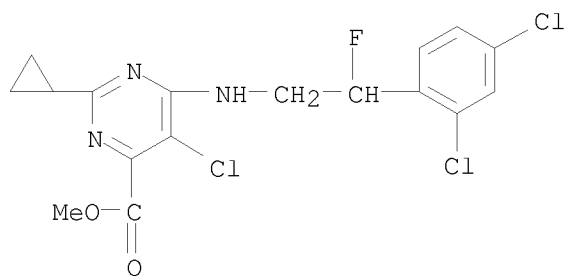
RN 1165933-96-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[2-[6-chloro-4-(trifluoromethyl)-2-pyridinyl]ethyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



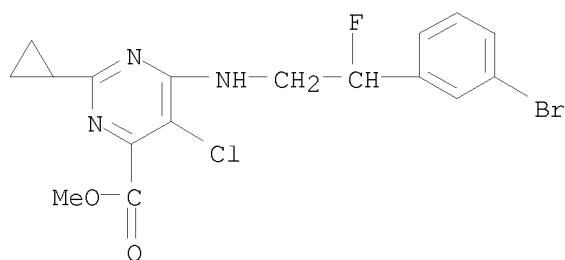
RN 1165933-97-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(2,4-dichlorophenyl)-2-fluoroethyl]amino]-, methyl ester (CA INDEX NAME)



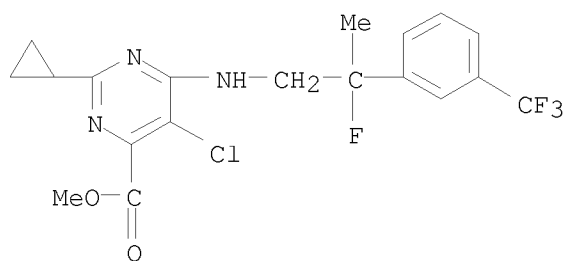
RN 1165933-98-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[2-(3-bromophenyl)-2-fluoroethyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



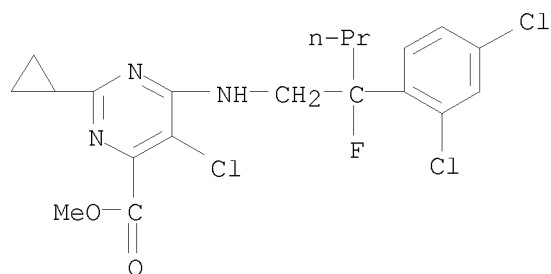
RN 1165933-99-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-fluoro-2-[3-(trifluoromethyl)phenyl]propyl]amino]-, methyl ester (CA INDEX NAME)



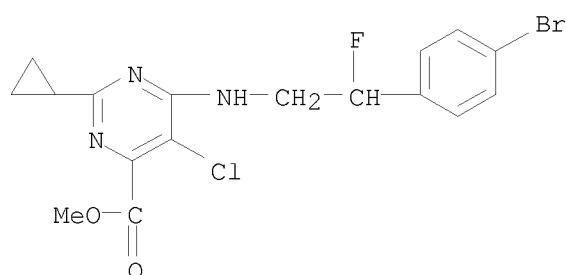
RN 1165934-00-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(2,4-dichlorophenyl)-2-fluoropentyl]amino]-, methyl ester (CA INDEX NAME)



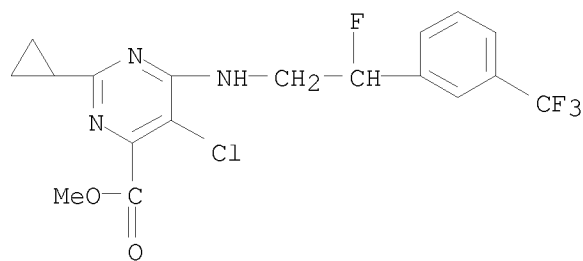
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CN 4-Pyrimidinecarboxylic acid, 6-[[2-(4-bromophenyl)-2-fluoroethyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



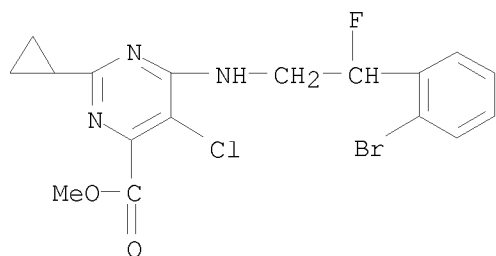
RN 1165934-02-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-fluoro-2-[3-(trifluoromethyl)phenyl]ethyl]amino]-, methyl ester (CA INDEX NAME)



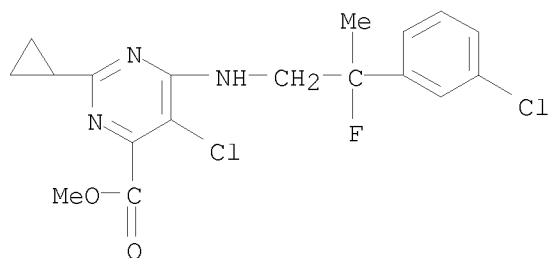
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CN 4-Pyrimidinecarboxylic acid, 6-[[2-(2-bromophenyl)-2-fluoroethyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



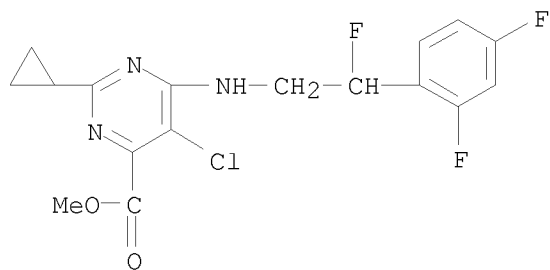
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[2-(3-chlorophenyl)-2-fluoropropyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165934-05-3 CAPLUS

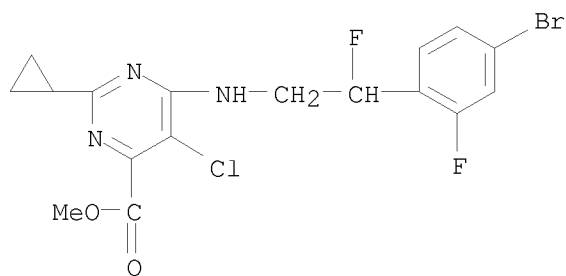
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(2,4-difluorophenyl)-2-fluoroethyl]amino]-, methyl ester (CA INDEX NAME)



RN 1165934-06-4 CAPLUS

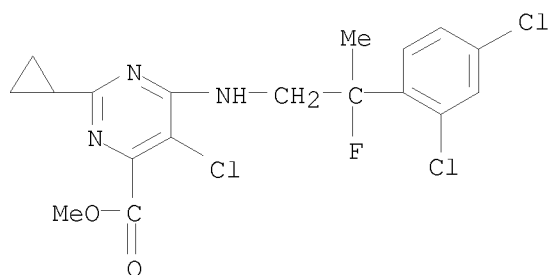
CN 4-Pyrimidinecarboxylic acid, 6-[[2-(4-bromo-2-fluorophenyl)-2-fluoroethyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)

10/581,897 (amended)



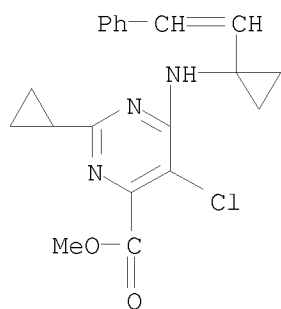
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(2,4-dichlorophenyl)-2-fluoropropyl]amino]-, methyl ester (CA INDEX NAME)



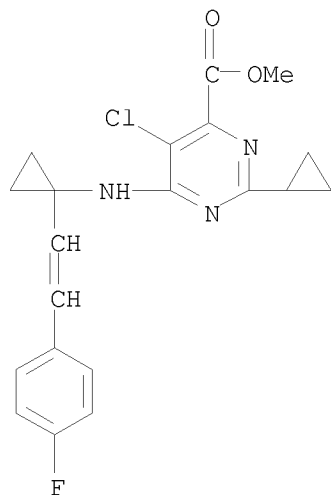
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(2-phenylethenyl)cyclopropyl]amino]-, methyl ester (CA INDEX NAME)

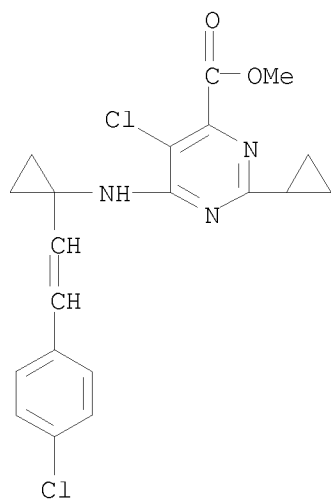


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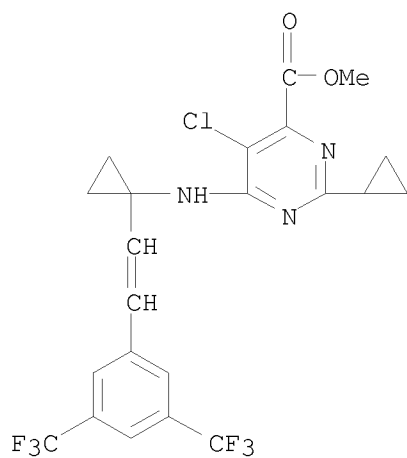
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-[2-(4-fluorophenyl)ethenyl]cyclopropyl]amino]-, methyl ester (CA INDEX NAME)



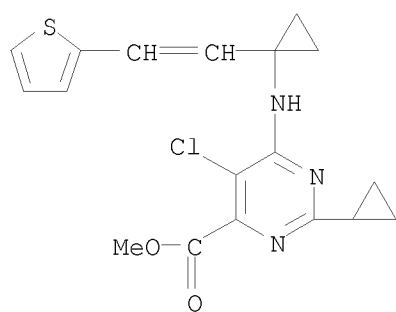
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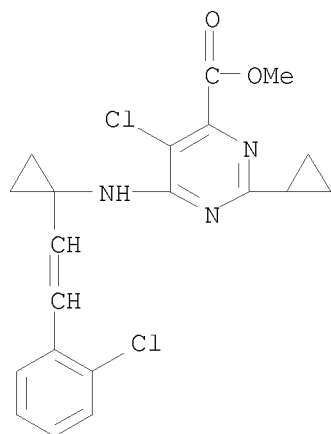
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 CN 4-Pyrimidinecarboxylic acid, 6-[[1-[2-[3,5-bis(trifluoromethyl)phenyl]ethenyl]cyclopropyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



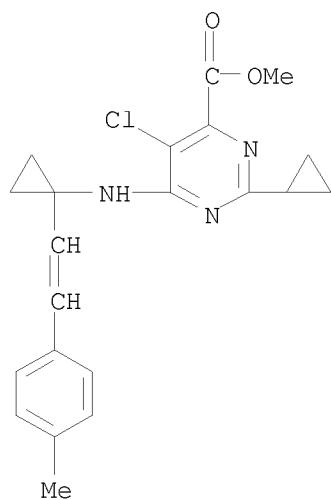
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 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-[2-(2-(trifluoromethyl)thienyl)ethenyl]cyclopropyl]amino]-, methyl ester (CA INDEX NAME)



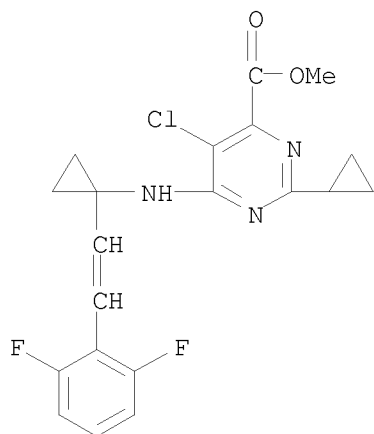
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 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[1-[2-(2-(thiophen-2-yl)ethenyl]cyclopropyl]amino]-2-cyclopropyl]-, methyl ester (CA INDEX NAME)



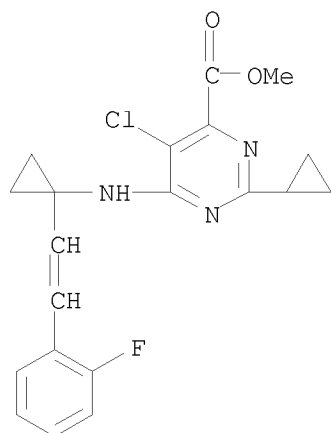
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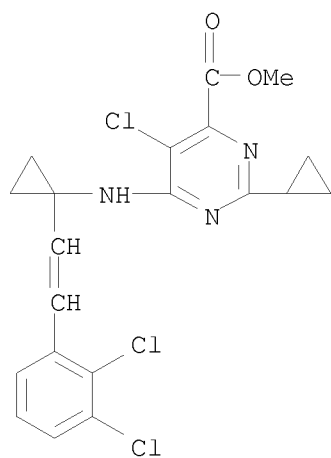
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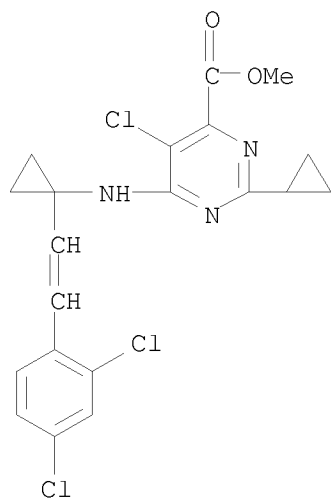
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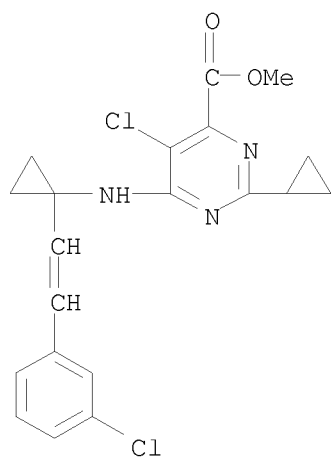
RN 1165934-17-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-[2-(2,3-dichlorophenyl)ethenyl]cyclopropyl]amino]-, methyl ester (CA INDEX NAME)



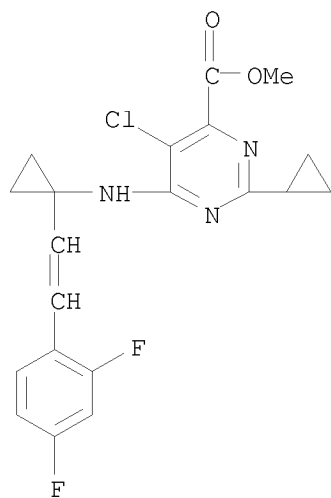
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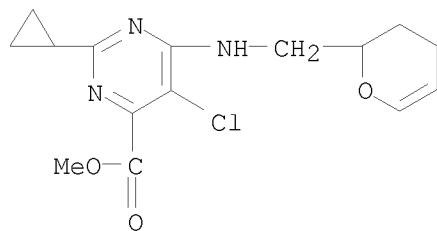
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 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[1-[2-(3-chlorophenyl)ethenyl]cyclopropyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165934-20-2 CAPLUS
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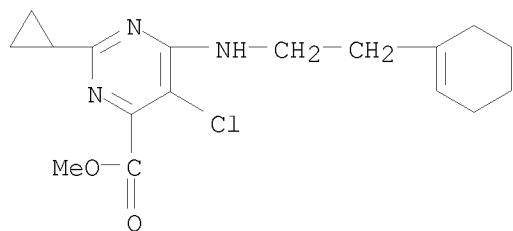


RN 1165934-21-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-[(3,4-dihydro-2H-pyran-2-yl)methyl]amino]-, methyl ester (CA INDEX NAME)



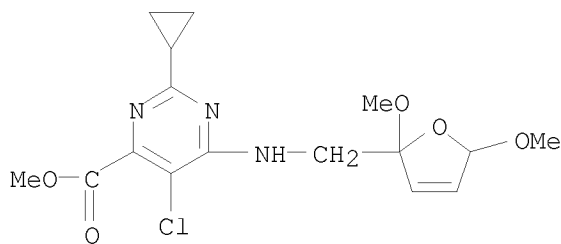
RN 1165934-22-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[2-(1-cyclohexen-1-yl)ethyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165934-23-5 CAPLUS

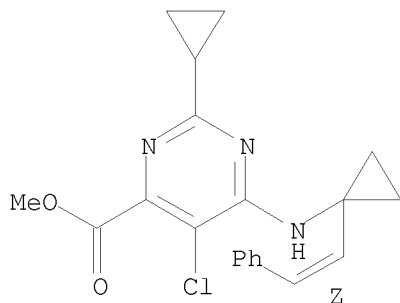
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2,5-dihydro-2,5-dimethoxy-2-furanyl)methyl]amino]-, methyl ester (CA INDEX NAME)



RN 1165934-24-6 CAPLUS

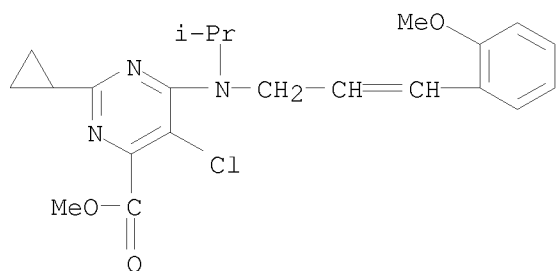
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-[(1Z)-2-phenylethenyl]cyclopropyl]amino]-, methyl ester (CA INDEX NAME)

Double bond geometry as shown.



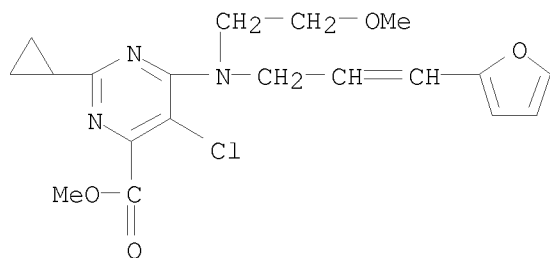
RN 1165934-25-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3-(2-methoxyphenyl)-2-propen-1-yl](1-methylethyl)amino]-, methyl ester (CA INDEX NAME)



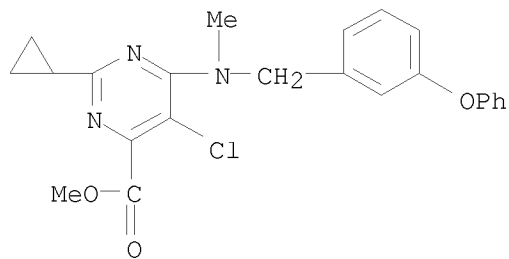
RN 1165934-26-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3-(2-furanyl)-2-propen-1-yl](2-methoxyethyl)amino]-, methyl ester (CA INDEX NAME)



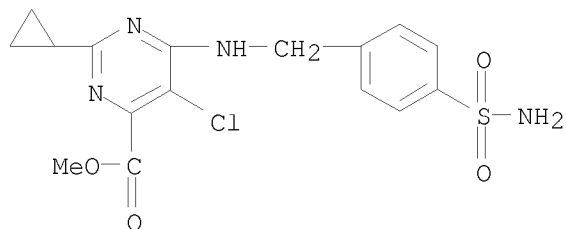
RN 1165934-27-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[(3-phenoxyphenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



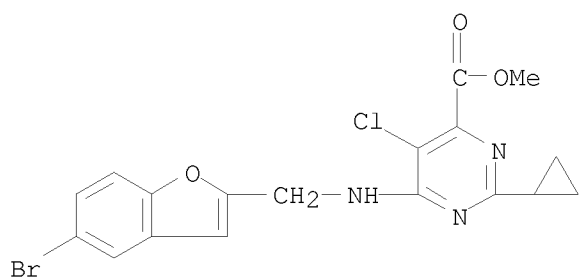
RN 1165934-28-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[[4-(aminosulfonyl)phenyl]methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



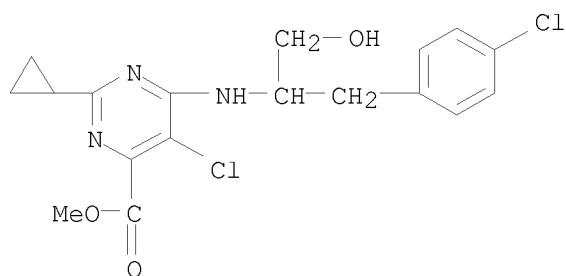
RN 1165934-29-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[5-bromo-2-benzofuranyl)methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165934-30-4 CAPLUS

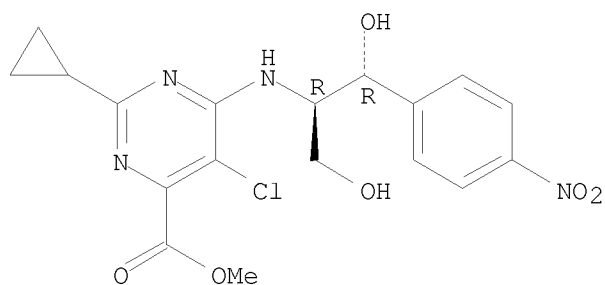
CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[2-(4-chlorophenyl)-1-(hydroxymethyl)ethyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165934-31-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(4-chlorophenyl)-1-(hydroxymethyl)ethyl]amino]-, methyl ester (CA INDEX NAME)

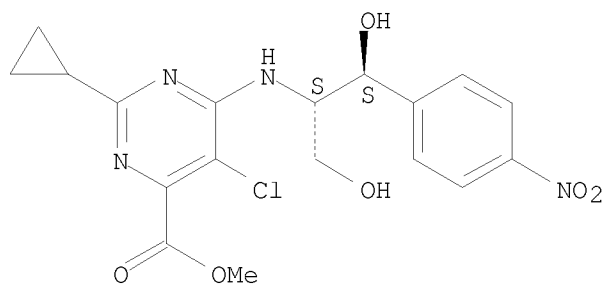
Absolute stereochemistry.



RN 1165934-32-6 CAPLUS

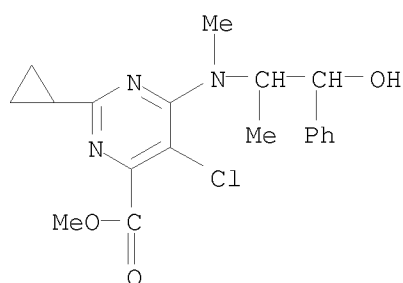
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1S,2S)-2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 1165934-33-7 CAPLUS

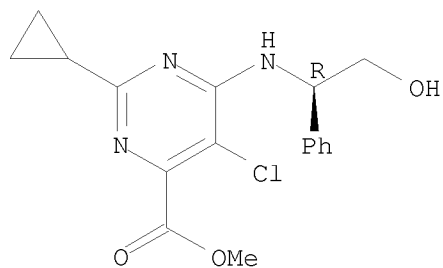
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2S)-2-hydroxy-1-methyl-2-(4-nitrophenyl)ethyl]methylamino]-, methyl ester (CA INDEX NAME)



RN 1165934-34-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1R)-2-hydroxy-1-phenylethyl]amino]-, methyl ester (CA INDEX NAME)

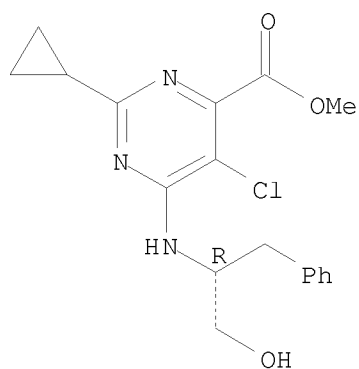
Absolute stereochemistry.



RN 1165934-35-9 CAPLUS

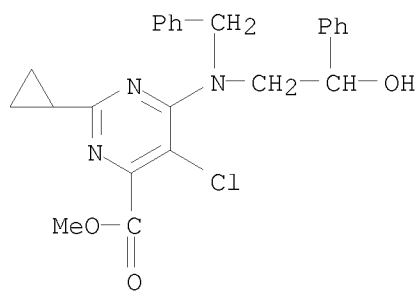
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1R)-1-(hydroxymethyl)-2-phenylethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 1165934-36-0 CAPLUS

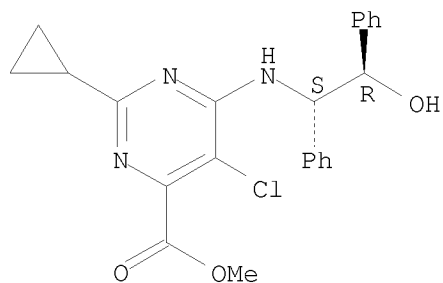
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxy-2-phenylethyl)(phenylmethyl)amino]-, methyl ester (CA INDEX NAME)



RN 1165934-37-1 CAPLUS

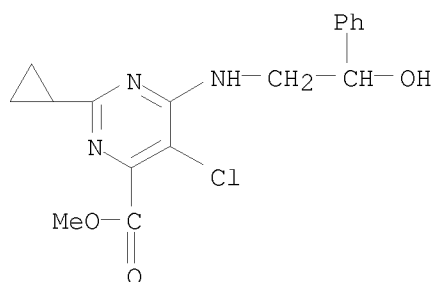
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1S,2R)-2-hydroxy-1,2-diphenylethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 1165934-38-2 CAPLUS

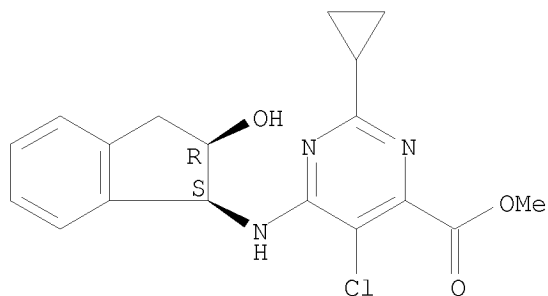
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxy-2-phenylethyl)amino]-, methyl ester (CA INDEX NAME)



RN 1165934-39-3 CAPLUS

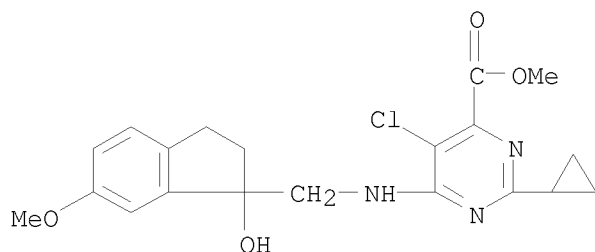
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(2,3-dihydro-2-hydroxy-1H-inden-1-yl)amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 1165934-40-6 CAPLUS

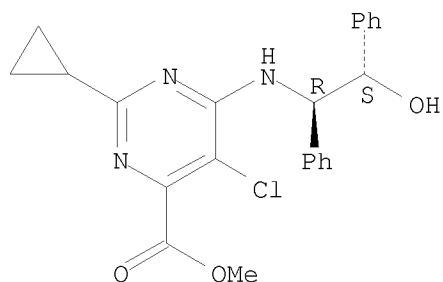
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2,3-dihydro-1-hydroxy-6-methoxy-1H-inden-1-yl)methyl]amino]-, methyl ester (CA INDEX NAME)



RN 1165934-41-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1,2-diphenylethyl]amino]-, methyl ester (CA INDEX NAME)

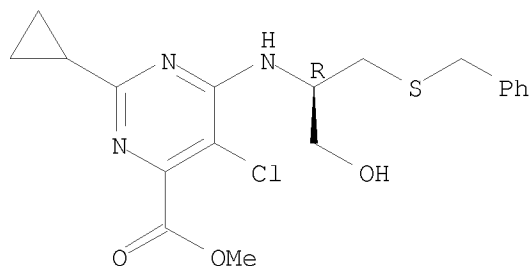
Absolute stereochemistry.



RN 1165934-42-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-[(hydroxymethyl)-2-[(phenylmethyl)thio]ethyl]amino]-, methyl ester (CA INDEX NAME)

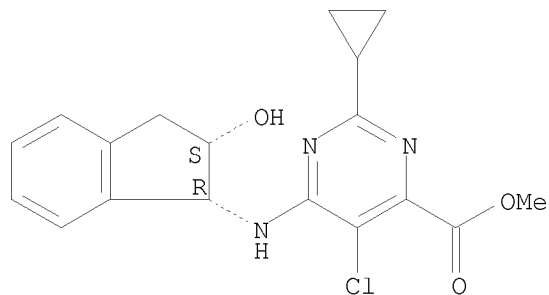
Absolute stereochemistry.



RN 1165934-43-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1,2-dihydro-2-hydroxy-1H-inden-1-yl]amino]-, methyl ester (CA INDEX NAME)

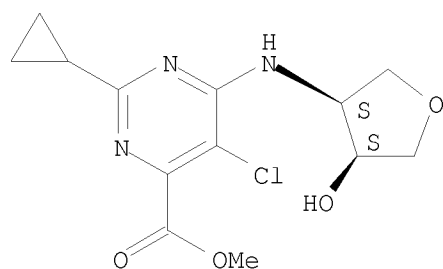
Absolute stereochemistry.



RN 1165934-44-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(3S,4S)-tetrahydro-4-hydroxy-3-furanyl]amino]-, methyl ester (CA INDEX NAME)

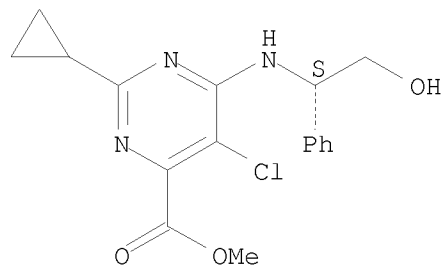
Absolute stereochemistry.



RN 1165934-45-1 CAPLUS

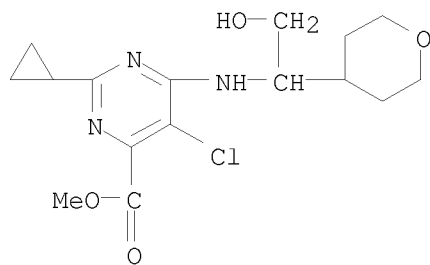
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1S)-2-hydroxy-1-phenylethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



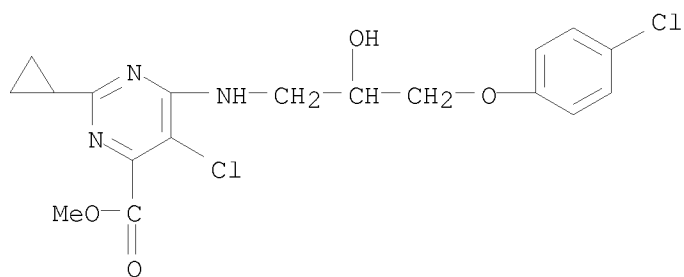
RN 1165934-46-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-hydroxy-1-(tetrahydro-2H-pyran-4-yl)ethyl]amino]-, methyl ester (CA INDEX NAME)



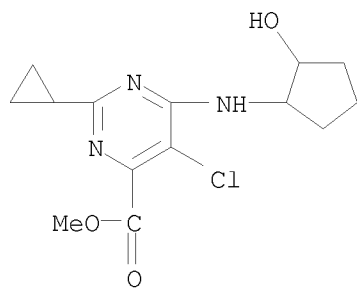
RN 1165934-47-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[3-(4-chlorophenoxy)-2-hydroxypropyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



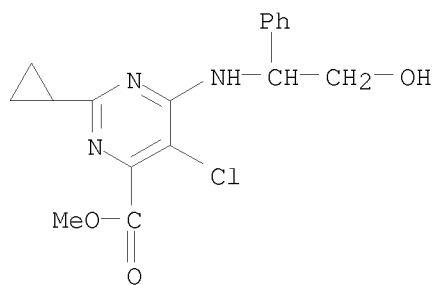
RN 1165934-48-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxycyclopentyl)amino]-, methyl ester (CA INDEX NAME)



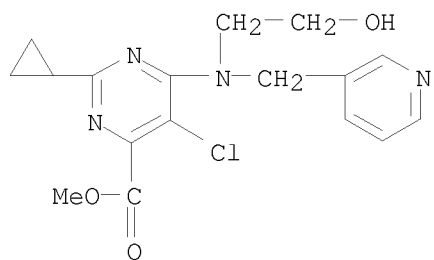
RN 1165934-49-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxy-1-phenylethyl)amino]-, methyl ester (CA INDEX NAME)



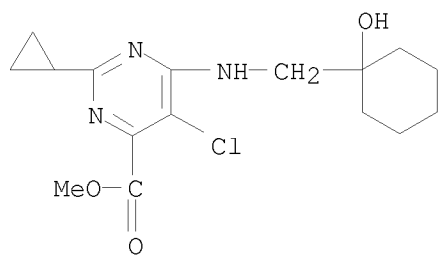
RN 1165934-50-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxyethyl)(3-pyridinylmethyl)amino]-, methyl ester (CA INDEX NAME)



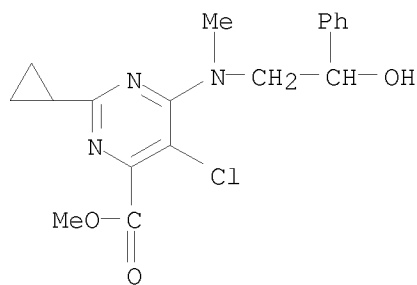
RN 1165934-51-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(1-hydroxycyclohexyl)methyl]amino]-, methyl ester (CA INDEX NAME)



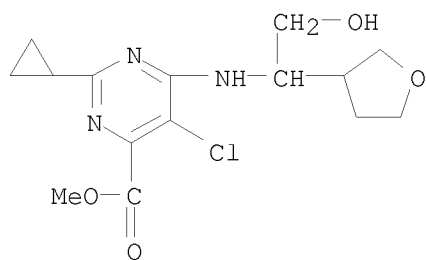
RN 1165934-52-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxy-2-phenylethyl)methylamino]-, methyl ester (CA INDEX NAME)



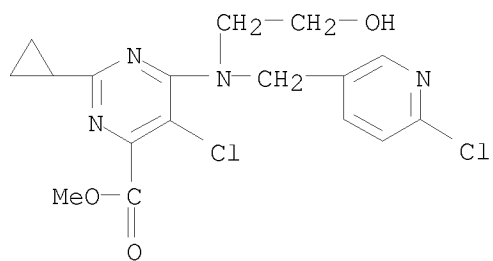
RN 1165934-53-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-hydroxy-1-(tetrahydro-3-furanyl)ethyl]amino]-, methyl ester (CA INDEX NAME)



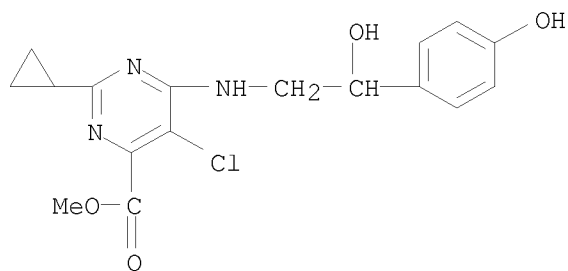
RN 1165934-54-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[[(6-chloro-3-pyridinyl)methyl](2-hydroxyethyl)amino]-2-cyclopropyl]-, methyl ester (CA INDEX NAME)



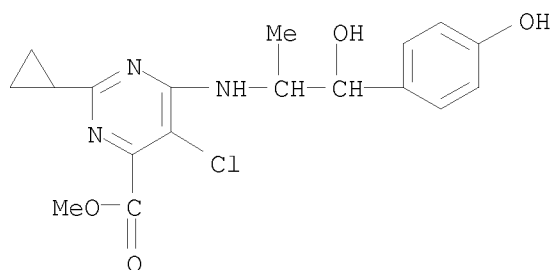
RN 1165934-55-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-hydroxy-2-(4-hydroxyphenyl)ethyl]amino]-, methyl ester (CA INDEX NAME)



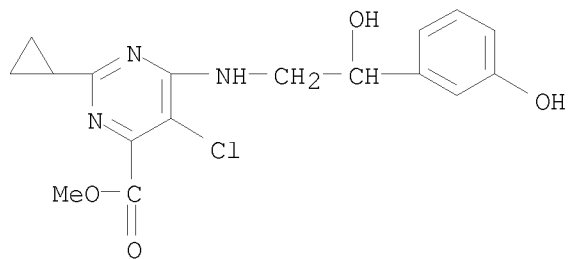
RN 1165934-56-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-hydroxy-2-(4-hydroxyphenyl)-1-methylethyl]amino]-, methyl ester (CA INDEX NAME)



RN 1165934-57-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-hydroxy-2-(3-hydroxyphenyl)ethyl]amino]-, methyl ester (CA INDEX NAME)

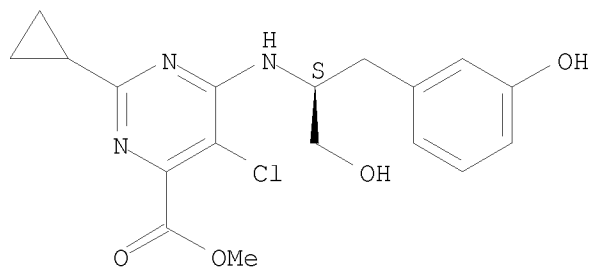


RN 1165934-58-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-hydroxy-2-(3-hydroxyphenyl)methyl]ethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.

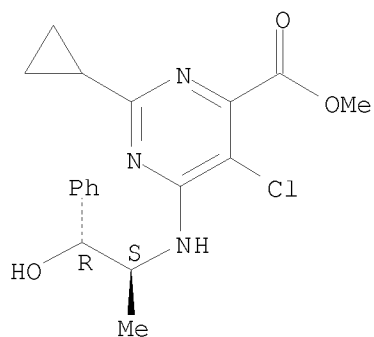
10/581,897 (amended)



RN 1165934-59-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1S,2R)-2-hydroxy-1-methyl-2-phenylethyl]amino]-, methyl ester (CA INDEX NAME)

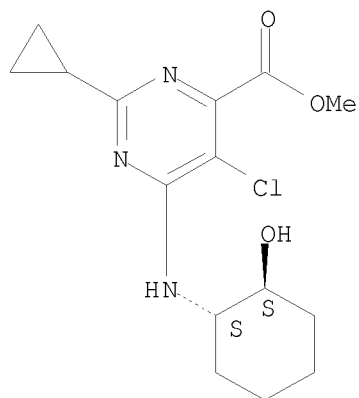
Absolute stereochemistry.



RN 1165934-60-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1R,2R)-2-hydroxycyclohexyl]amino]-, methyl ester, rel- (CA INDEX NAME)

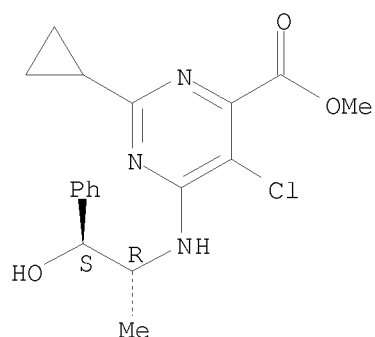
Relative stereochemistry.



RN 1165934-61-1 CAPLUS

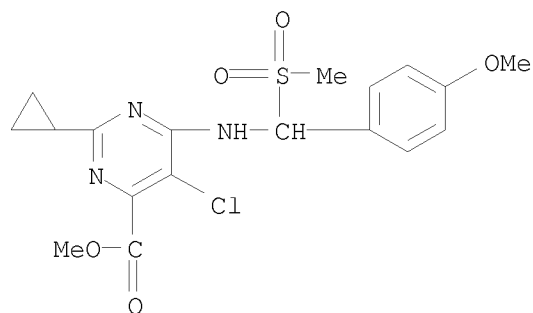
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1R,2S)-2-hydroxy-1-methyl-2-phenylethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



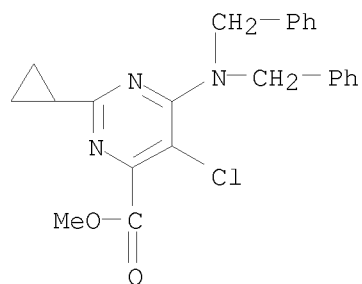
RN 1165934-62-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[4-methoxyphenyl](methanesulfonyl)methyl]amino]-, methyl ester (CA INDEX NAME)



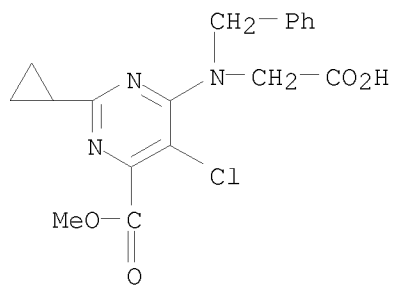
RN 1165934-64-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-bis[(phenylmethyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



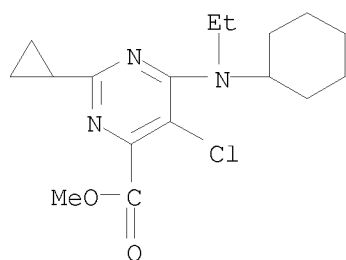
RN 1165934-65-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[(carboxymethyl)(phenylmethyl)amino]-5-chloro-2-cyclopropyl-, 4-methyl ester (CA INDEX NAME)



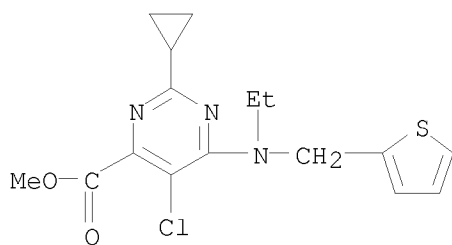
RN 1165934-66-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-(cyclohexylethylamino)-2-cyclopropyl-, methyl ester (CA INDEX NAME)



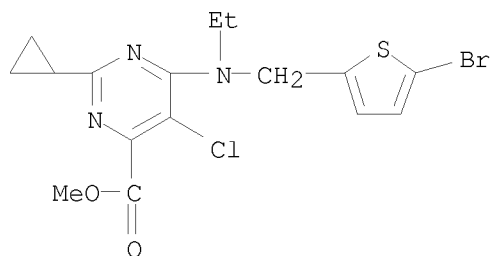
RN 1165934-67-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl(2-thienylmethyl)amino]-, methyl ester (CA INDEX NAME)



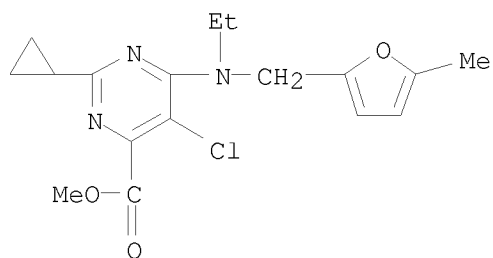
RN 1165934-69-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[[(5-bromo-2-thienyl)methyl]ethylamino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



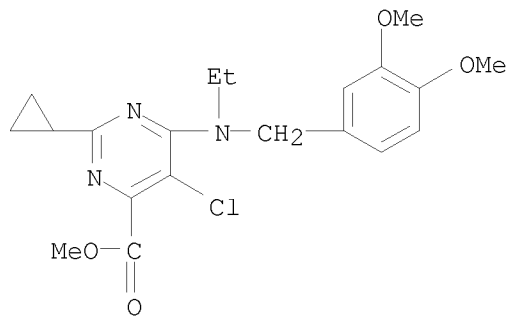
RN 1165934-70-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl[(5-methyl-2-furanyl)methyl]amino]-, methyl ester (CA INDEX NAME)



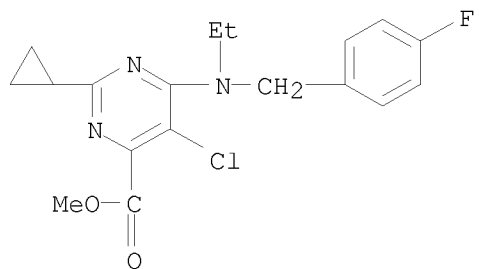
RN 1165934-71-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3,4-dimethoxyphenyl)methyl]ethylamino]-, methyl ester (CA INDEX NAME)



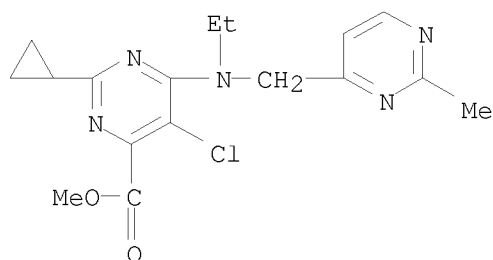
RN 1165934-72-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl[(4-fluorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



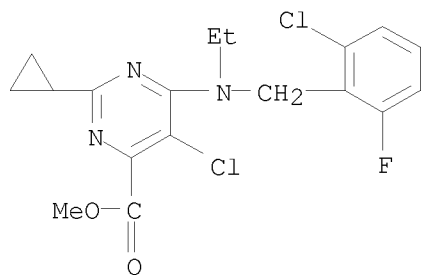
RN 1165934-73-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl[(2-methyl-4-pyrimidinyl)methyl]amino]-, methyl ester (CA INDEX NAME)



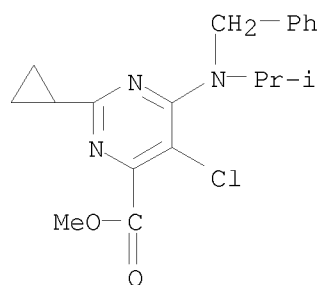
RN 1165934-74-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[[(2-chloro-6-fluorophenyl)methyl]ethylamino]-2-cyclopropyl]-, methyl ester (CA INDEX NAME)



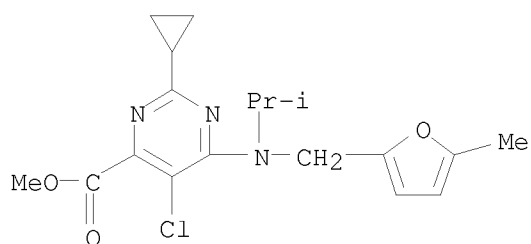
RN 1165934-76-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-methylethyl)(phenylmethyl)amino]-, methyl ester (CA INDEX NAME)



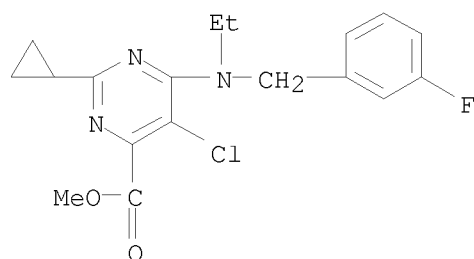
RN 1165934-77-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-methylethyl)[(5-methyl-2-furanyl)methyl]amino]-, methyl ester (CA INDEX NAME)



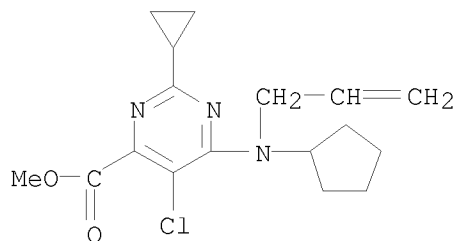
RN 1165934-78-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl[(3-fluorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



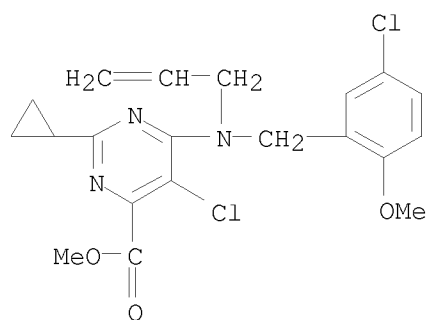
RN 1165934-79-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-(cyclopentyl-2-propen-1-ylamino)-2-cyclopropyl-, methyl ester (CA INDEX NAME)



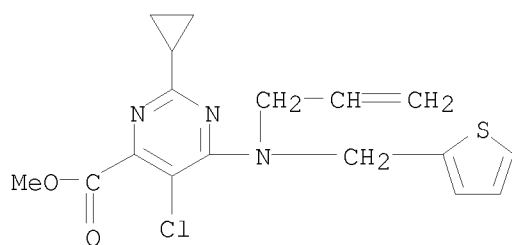
RN 1165934-80-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[5-chloro-2-methoxyphenyl)methyl]-2-propen-1-ylamino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



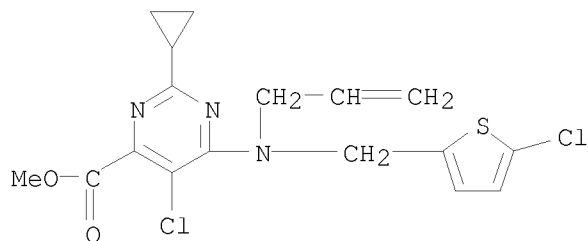
RN 1165934-82-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[2-propen-1-yl(2-thienylmethyl)amino]-, methyl ester (CA INDEX NAME)



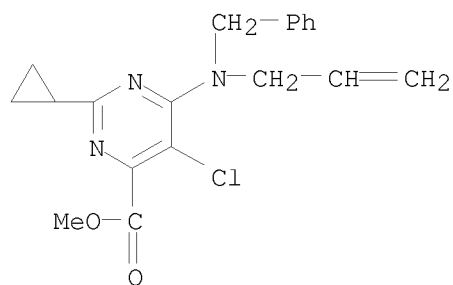
RN 1165934-83-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[5-chloro-2-thienyl)methyl]-2-propen-1-ylamino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165934-85-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(phenylmethyl)-2-propen-1-ylamino]-, methyl ester (CA INDEX NAME)



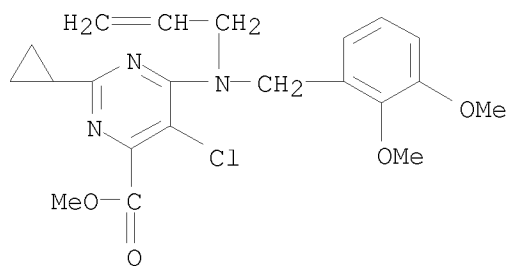
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	1165934-98-4P	1165934-99-5P	1165935-00-1P
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	1165935-18-1P	1165935-19-2P	1165935-20-5P
	1165935-21-6P	1165935-23-8P	1165935-24-9P
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	1165936-25-3P	1165936-26-4P	1165936-27-5P
	1165936-28-6P	1165936-29-7P	1165936-30-0P
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	1165936-40-2P	1165936-44-6P	1165936-46-8P
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RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation and use as herbicide)

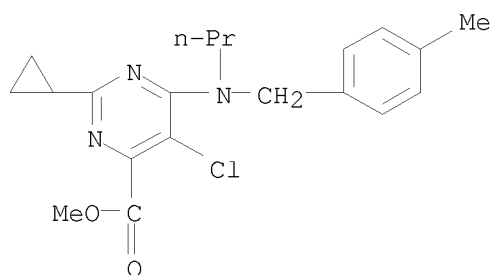
RN 1165934-86-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2,3-dimethoxyphenyl)methyl]-2-propen-1-ylamino]-, methyl ester (CA INDEX NAME)



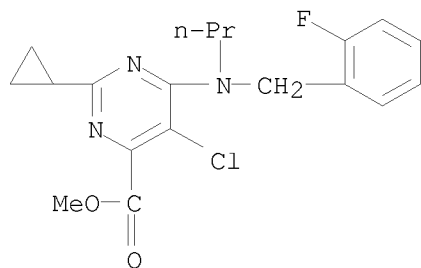
RN 1165934-87-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[4-(4-methylphenyl)methyl]propylamino]-, methyl ester (CA INDEX NAME)



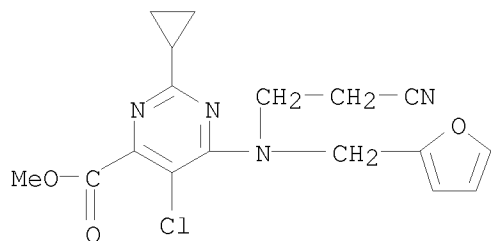
RN 1165934-88-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(2-fluorophenyl)methyl]propylamino]-, methyl ester (CA INDEX NAME)



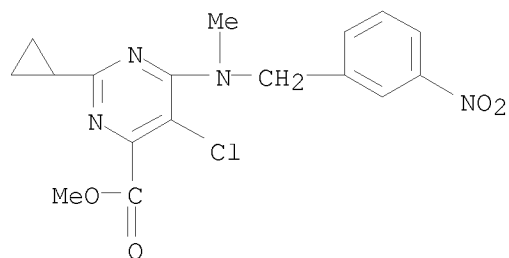
RN 1165934-91-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(2-cyanoethyl)(2-furanylmethyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



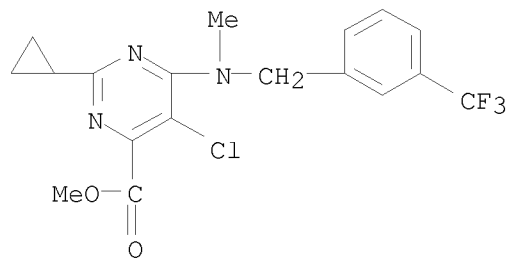
RN 1165934-92-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[(3-nitrophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



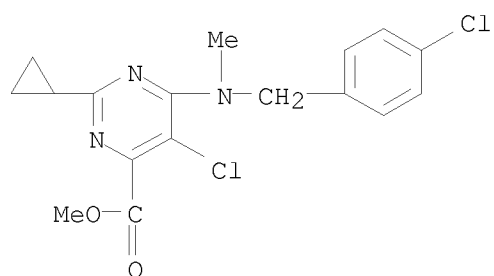
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[[3-(trifluoromethyl)phenyl]methyl]amino]-, methyl ester (CA INDEX NAME)



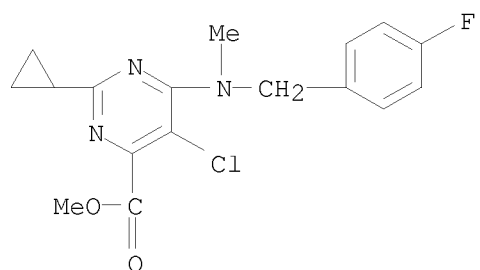
RN 1165934-94-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[[4-chlorophenyl)methyl]methylamino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



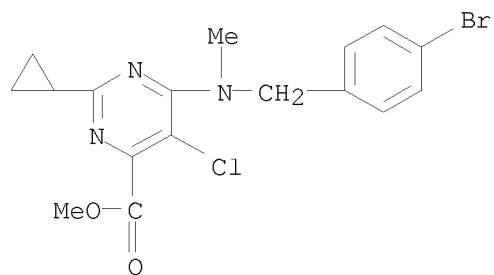
RN 1165934-95-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(4-fluorophenyl)methyl]methylamino]-, methyl ester (CA INDEX NAME)



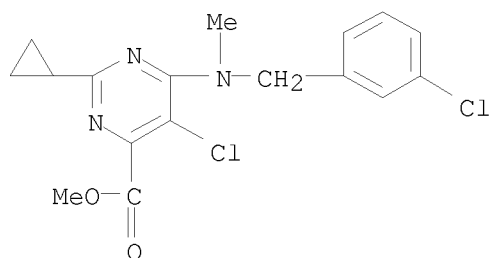
RN 1165934-96-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[(4-bromophenyl)methyl]methylamino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



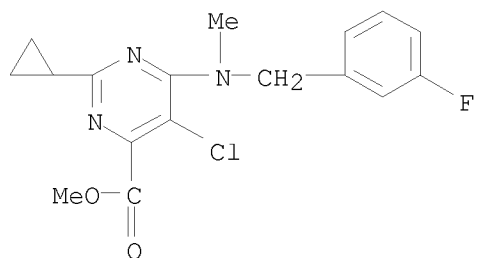
RN 1165934-98-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[(3-chlorophenyl)methyl]methylamino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



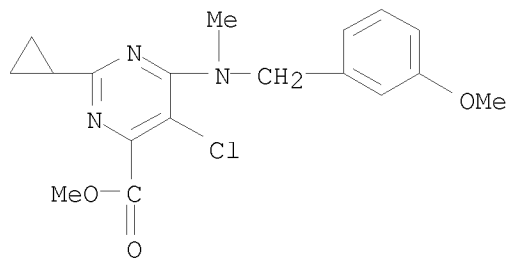
RN 1165934-99-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3-fluorophenyl)methyl]methylamino]-, methyl ester (CA INDEX NAME)



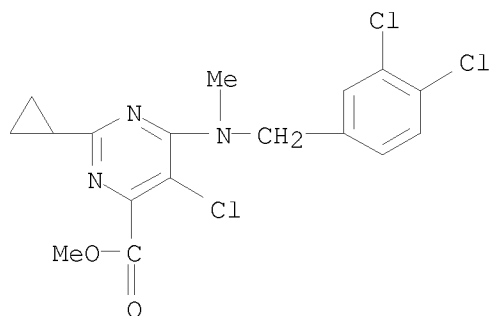
RN 1165935-00-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3-methoxyphenyl)methyl]methylamino]-, methyl ester (CA INDEX NAME)

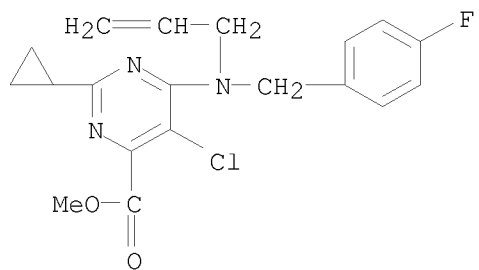


RN 1165935-01-2 CAPLUS

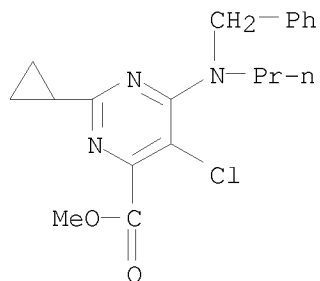
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3,4-dichlorophenyl)methyl]methylamino]-, methyl ester (CA INDEX NAME)



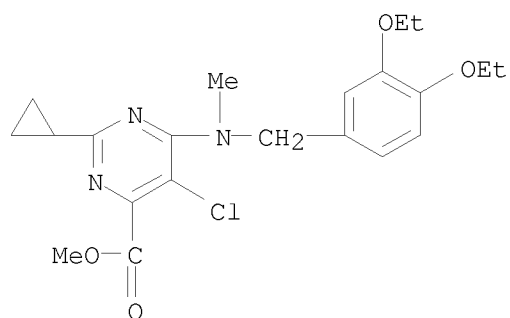
RN 1165935-02-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[4-fluorophenyl)methyl]-2-propen-1-ylamino]-, methyl ester (CA INDEX NAME)



RN 1165935-03-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(phenylmethyl)propylamino]-, methyl ester (CA INDEX NAME)

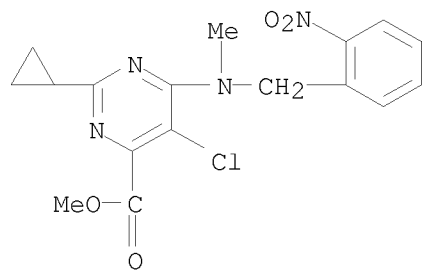


RN 1165935-04-5 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3,4-diethoxyphenyl)methyl]methylamino]-, methyl ester (CA INDEX NAME)



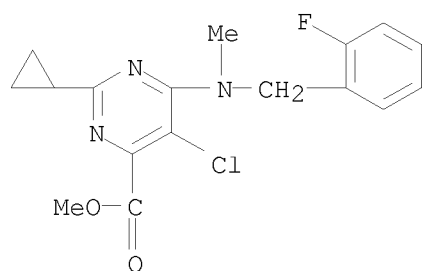
RN 1165935-05-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[(2-nitrophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



RN 1165935-06-7 CAPLUS

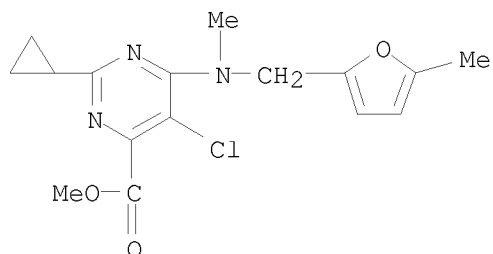
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-fluorophenyl)methyl]methylamino]-, methyl ester (CA INDEX NAME)



RN 1165935-07-8 CAPLUS

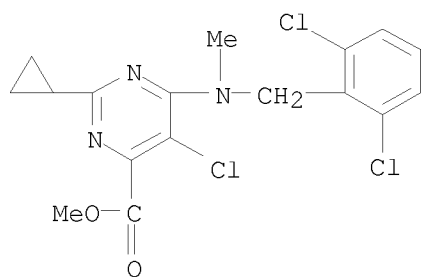
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[(5-methyl-2-furanyl)methyl]amino]-, methyl ester (CA INDEX NAME)

10/581,897 (amended)



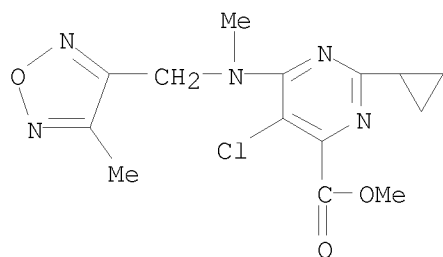
RN 1165935-08-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2,6-dichlorophenyl)methyl)methylamino]-, methyl ester (CA INDEX NAME)



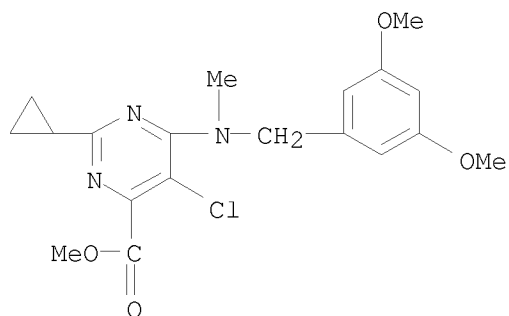
RN 1165935-09-0 CAPLUS

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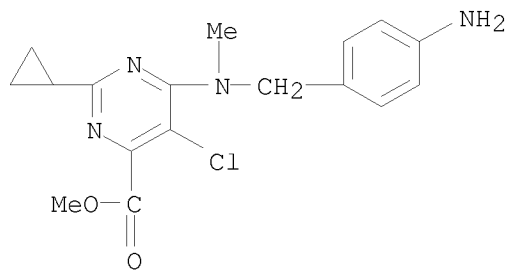
RN 1165935-10-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[3,5-dimethoxyphenyl)methyl)methylamino]-, methyl ester (CA INDEX NAME)



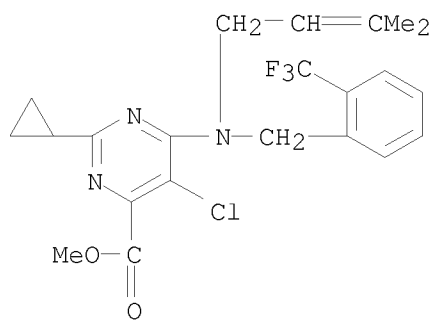
RN 1165935-11-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[[4-(3,5-dimethoxyphenyl)methyl]methylamino]-5-chloro-2-cyclopropyl]-, methyl ester (CA INDEX NAME)



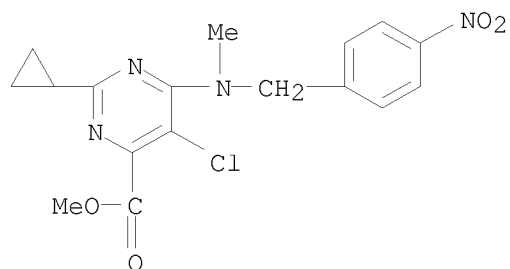
RN 1165935-12-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-methyl-2-buten-1-yl)[[2-(trifluoromethyl)phenyl]methyl]amino]-, methyl ester (CA INDEX NAME)



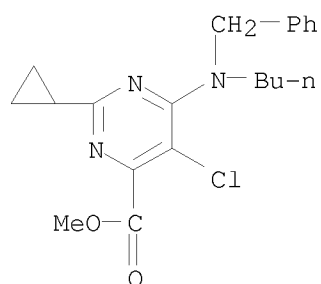
RN 1165935-13-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[(4-nitrophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



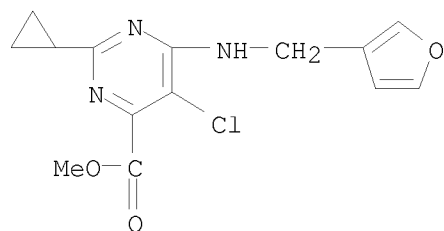
RN 1165935-14-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[butyl(phenylmethyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



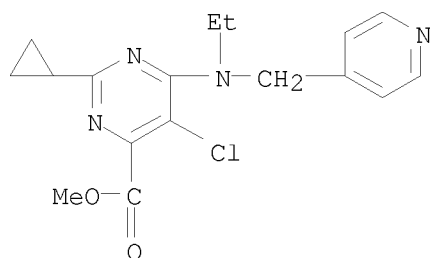
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-furanylmethyl)amino]-, methyl ester (CA INDEX NAME)



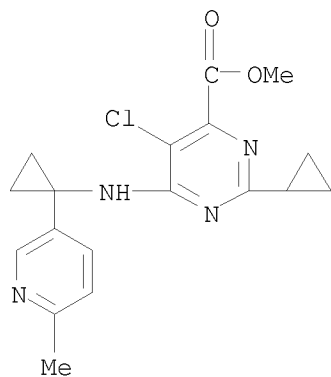
RN 1165935-18-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl(4-pyridinylmethyl)amino]-, methyl ester (CA INDEX NAME)



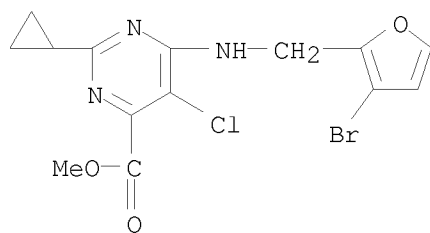
RN 1165935-19-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(6-methyl-3-pyridinyl)cyclopropyl]amino]-, methyl ester (CA INDEX NAME)



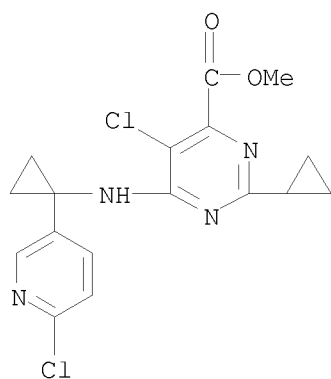
RN 1165935-20-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[[(3-bromo-2-furanyl)methyl]amino]-5-chloro-2-cyclopropyl]-, methyl ester (CA INDEX NAME)



RN 1165935-21-6 CAPLUS

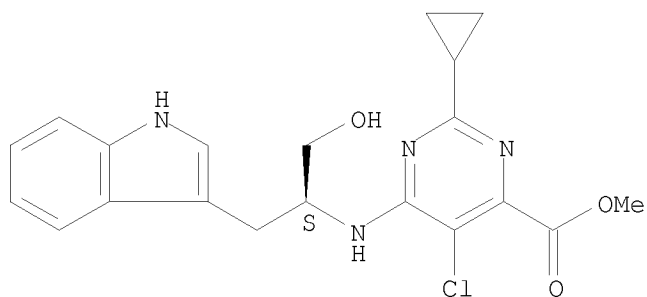
CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[1-(6-chloro-3-pyridinyl)cyclopropyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165935-23-8 CAPLUS

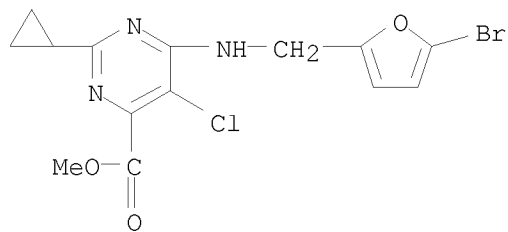
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(1S)-2-hydroxy-1-(1H-indol-3-ylmethyl)ethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



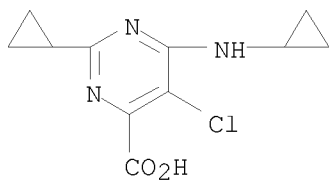
RN 1165935-24-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[(5-bromo-2-furanyl)methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)

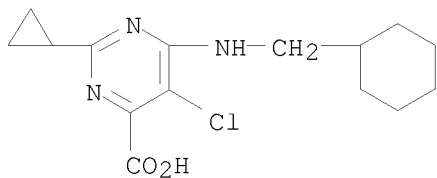


RN 1165936-12-8 CAPLUS

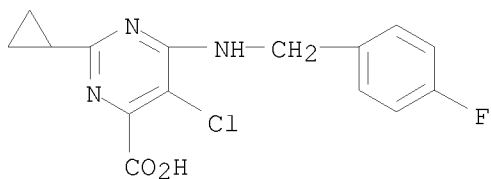
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(cyclopropylamino)- (CA INDEX NAME)



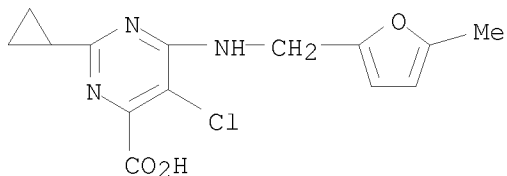
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 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(cyclohexylmethyl)amino]-2-cyclopropyl- (CA INDEX NAME)



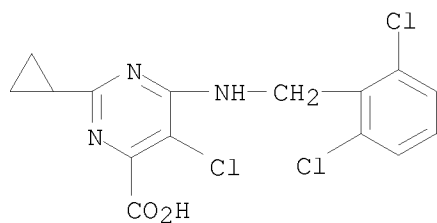
RN 1165936-16-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(4-fluorophenyl)methyl]amino]- (CA INDEX NAME)



RN 1165936-17-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(5-methyl-2-furanyl)methyl]amino]- (CA INDEX NAME)

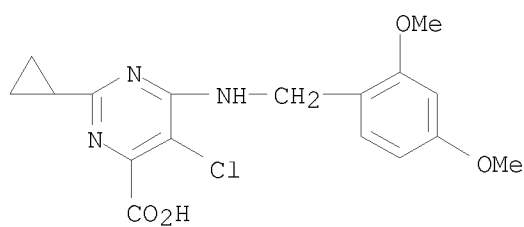


RN 1165936-18-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(2,6-dichlorophenyl)methyl]amino]- (CA INDEX NAME)



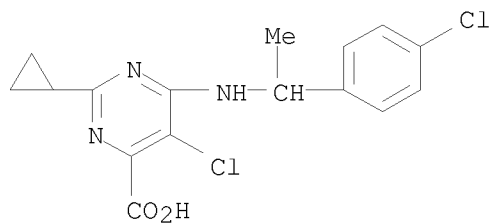
RN 1165936-19-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2,4-dimethoxyphenyl)methyl]amino]- (CA INDEX NAME)



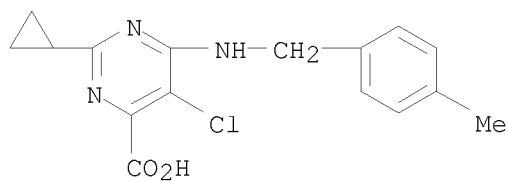
RN 1165936-21-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[1-(4-chlorophenyl)ethyl]amino]-2-cyclopropyl- (CA INDEX NAME)



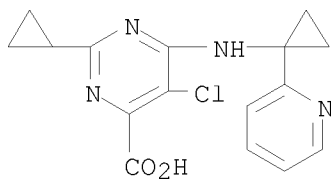
RN 1165936-23-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[4-methylphenyl)methyl]amino]- (CA INDEX NAME)

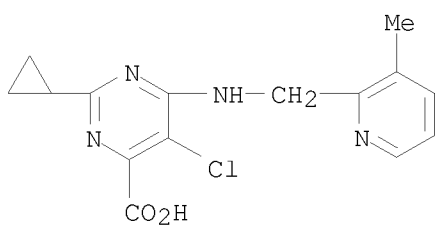


RN 1165936-24-2 CAPLUS

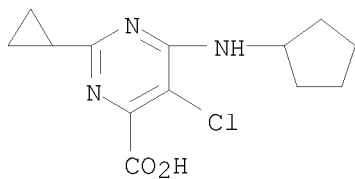
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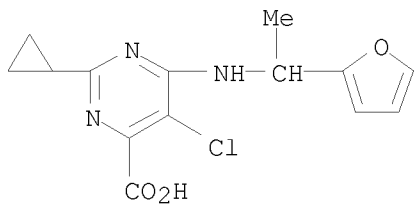
RN 1165936-25-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(3-methyl-2-pyridinyl)methyl]amino]- (CA INDEX NAME)



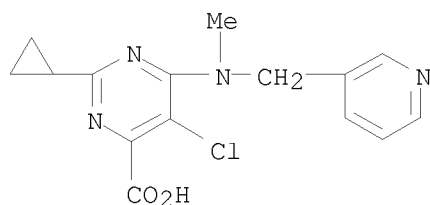
RN 1165936-26-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-(cyclopentylamino)-2-cyclopropyl- (CA INDEX NAME)



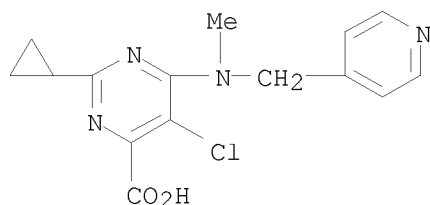
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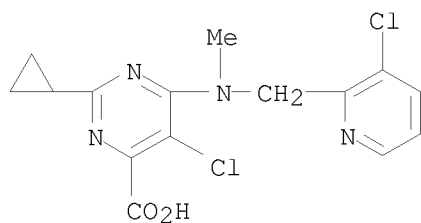
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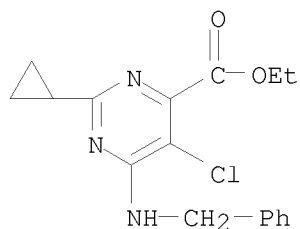
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 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl(4-pyridinylmethyl)amino]- (CA INDEX NAME)



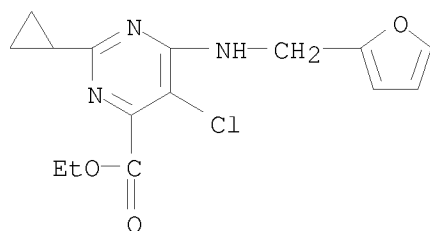
RN 1165936-30-0 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[3-chloro-2-pyridinyl)methyl]methylamino]-2-cyclopropyl- (CA INDEX NAME)



RN 1165936-31-1 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(phenylmethyl)amino]-, ethyl ester (CA INDEX NAME)

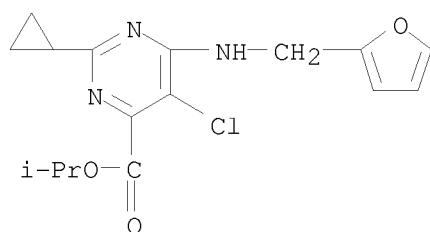


RN 1165936-32-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-furanylmethyl)amino]-, ethyl ester (CA INDEX NAME)



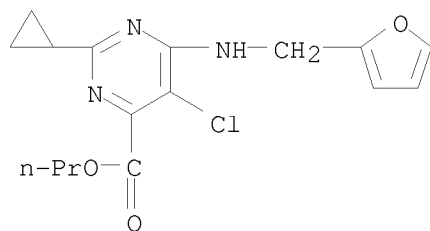
RN 1165936-33-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-furanylmethyl)amino]-, 1-methylethyl ester (CA INDEX NAME)



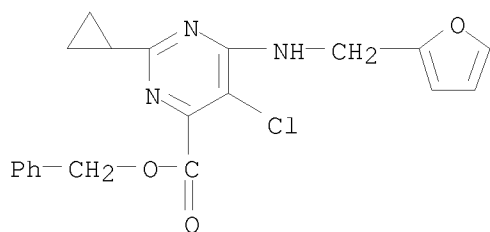
RN 1165936-34-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-furanylmethyl)amino]-, propyl ester (CA INDEX NAME)



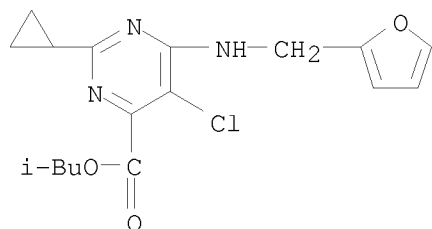
RN 1165936-35-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-furanylmethyl)amino]-, phenylmethyl ester (CA INDEX NAME)



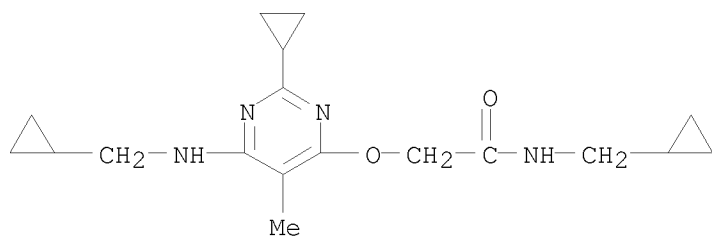
RN 1165936-36-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-furanylmethyl)amino]-, 2-methylpropyl ester (CA INDEX NAME)



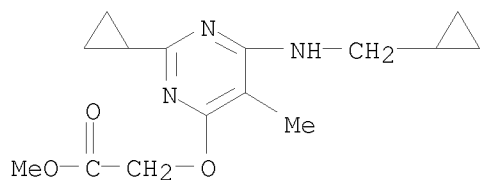
RN 1165936-40-2 CAPLUS

CN Acetamide, 2-[[2-cyclopropyl-6-[(cyclopropylmethyl)amino]-5-methyl-4-pyrimidinyl]oxy]-N-(cyclopropylmethyl)- (CA INDEX NAME)



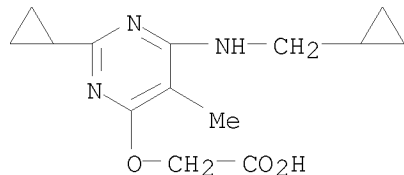
RN 1165936-44-6 CAPLUS

CN Acetic acid, 2-[[2-cyclopropyl-6-[(cyclopropylmethyl)amino]-5-methyl-4-pyrimidinyl]oxy]-, methyl ester (CA INDEX NAME)



RN 1165936-46-8 CAPLUS

CN Acetic acid, 2-[[2-cyclopropyl-6-[(cyclopropylmethyl)amino]-5-methyl-4-pyrimidinyl]oxy]- (CA INDEX NAME)

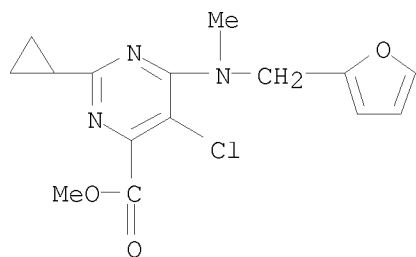


RN 1165938-19-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-

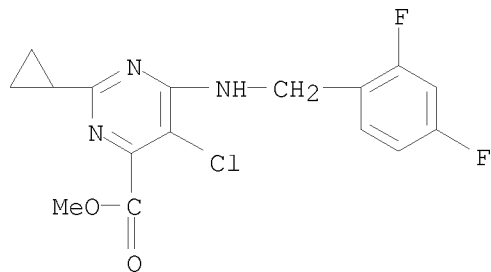
10/581,897 (amended)

furanylmethyl)methylamino]-, methyl ester (CA INDEX NAME)



RN 1165938-20-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(2,4-difluorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



L10 ANSWER 5 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2009:523364 CAPLUS

DN 150:465781

TI Herbicide combinations of
iodo[(methoxymethyltriazinyl)carbamoyl]benzenesulfonamide or salts and
(hetero)arylcarboxylic acids

IN Hacker, Erwin; Waldraff, Christian; Schreiber, Dominique; Hills, Martin;
Feucht, Dieter; Mueller, Klaus-Helmut; Gesing, R. F. Ernst; Bonfig-Picard,
Georg

PA Bayer Cropscience AG, Germany

SO PCT Int. Appl., 57pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009053055	A2	20090430	WO 2008-EP8944	20081022
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	EP 2052613	A1	20090429	EP 2007-20856	20071024
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				

PRAI EP 2007-20856 A 20071024

OS MARPAT 150:465781

AB Combinations of ≥ 1 herbicide selected from
2-iodo-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)carbamoyl]benzenesulfonamide or salts thereof and ≥ 1
(hetero)arylcarboxylic acid herbicide are applied jointly or sep. as
preemergence or postemergence herbicides to control weeds selectively in
crops such as wheat, corn, soybean, etc. and in pasture, grassland, and
turf. The combinations showed synergistic effects against a broad
spectrum of weeds at ≤ 100 g/ha.

IT 858956-08-8, Aminocyclopyrachlor

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
(Biological study); USES (Uses)

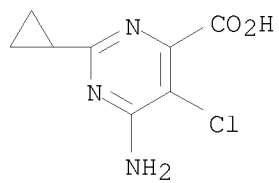
(herbicidal combinations of

iodo[(methoxymethyltriazinyl)carbamoyl]benzenesulfonamides and)

RN 858956-08-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX
NAME)

10/581,897 (amended)



L10 ANSWER 6 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2009:491510 CAPLUS
 DN 150:472745
 TI Preparation of aminoheterocycle-carboxamide compounds as renin inhibitors
 IN Imaeda, Yasuhiro; Kuroita, Takanobu; Fukase, Yoshiyuki; Suzuki, Shinkichi;
 Amano, Michiko
 PA Takeda Pharmaceutical Company Limited, Japan
 SO PCT Int. Appl., 423pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

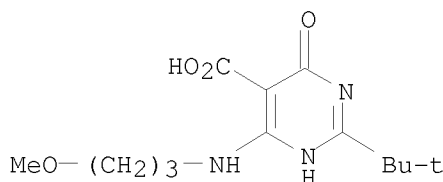
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009051112	A1	20090423	WO 2008-JP68595	20081014
W: AE, AG, AL, AM, AN, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRAI JP 2007-268100 A 20071015

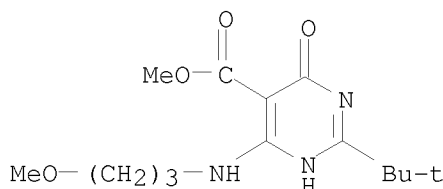
OS MARPAT 150:472745

AB Aminoheterocycle-carboxamide derivs. including 4-aminopyrimidine-5-carboxamide, aminocyclopenta[b]pyridine-3-carboxamide, 2-amino-5,6,7,8-tetrahydroquinoline-3-carboxamide, aminocyclohepta[b]pyridine-3-carboxamide, and 3-amino-1H-pyrazole-4-carboxamide derivs. [I; R1, R2 = (un)substituted carbocyclyl or heterocyclyl; or NR1R2 forms (un)substituted N-containing heterocyclic ring; R3 = substituent; ring A = (un)substituted allotrope or heterocyclic ring] or salts thereof or prodrugs thereof were prepared. Because of having an excellent renin inhibitory activity, these compds. are useful as preventives/remedies for hypertension and various organ disorders caused by hypertension. Thus, (3R,5S)-1-(tert-butoxycarbonyl)-5-[[[2-tert-butyl-4-[(1,3-oxazol-2-ylmethyl)amino]pyrimidin-5-yl]carbonyl](2-methylpropyl)amino]piperidine-3-carboxylic acid 125, HOBt 52, and 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride 64 mg were dissolved in 3 mL MeCN, followed by adding 20 μ L morpholine and 94 μ L Et3N, and the resulting mixture was stirred at room temperature for 15 h to give 110 mg tert-Bu (3S,5R)-3-[[[2-tert-butyl-4-[(1,3-oxazol-2-ylmethyl)amino]pyrimidin-5-yl]carbonyl](2-methylpropyl)amino]-5-[(morpholin-4-yl)carbonyl]piperidine-1-carboxylate (II). II (108 mg) was dissolved in 2 mL 2 M HCl/EtOAc and stirred at room temperature for 16 h to give, after workup and acidification with concentrated H2SO4 in MeOH, 2-tert-butyl-N-(2-methylpropyl)-N-[(3S,5R)-5-[(morpholin-4-yl)carbonyl]piperidin-3-yl]-4-[(1,3-oxazol-2-ylmethyl)amino]pyrimidine-5-carboxamide (III). H2SO4 at 1 μ M inhibited 98% the conversion of angiotensinogen into angiotensin 1 in the presence of renin. A tablet formulation containing compound (IV) was described.

- IT 1145751-52-5P, 2-tert-Butyl-4-[(3-methoxypropyl)amino]-6-oxo-1,6-dihydropyrimidine-5-carboxylic acid 1145751-54-7P, 2-tert-Butyl-4-[(3-methoxypropyl)amino]-6-oxo-1,6-dihydropyrimidine-5-carboxylic acid methyl ester
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of aminoheterocycle-carboxamide compds. as renin inhibitors for prevention and/or treatment of hypertension)
- RN 1145751-52-5 CAPLUS
- CN 5-Pyrimidinecarboxylic acid, 2-(1,1-dimethylethyl)-1,6-dihydro-4-[(3-methoxypropyl)amino]-6-oxo- (CA INDEX NAME)



- RN 1145751-54-7 CAPLUS
- CN 5-Pyrimidinecarboxylic acid, 2-(1,1-dimethylethyl)-1,6-dihydro-4-[(3-methoxypropyl)amino]-6-oxo-, methyl ester (CA INDEX NAME)



- IT 1145751-62-7P, 2-tert-Butyl-4-[(3-methoxypropyl)amino]-N-(2-methylpropyl)-N-[(3S,5R)-5-[(morpholin-4-yl)carbonyl]piperidin-3-yl]-6-oxo-1,6-dihydropyrimidine-5-carboxamide 1145751-65-0P, 2-tert-Butyl-4-chloro-6-[(3-methoxypropyl)amino]-N-(2-methylpropyl)-N-[(3S,5R)-5-[(morpholin-4-yl)carbonyl]piperidin-3-yl]pyrimidine-5-carboxamide dihydrochloride
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of aminoheterocycle-carboxamide compds. as renin inhibitors for prevention and/or treatment of hypertension)
- RN 1145751-62-7 CAPLUS
- CN 5-Pyrimidinecarboxamide, 2-(1,1-dimethylethyl)-1,6-dihydro-4-[(3-methoxypropyl)amino]-N-(2-methylpropyl)-N-[(3S,5R)-5-(4-morpholinylcarbonyl)-3-piperidinyl]-6-oxo- (CA INDEX NAME)

Absolute stereochemistry.

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ylethyl)-6-[(3-
5R)-5-(4-
ride (1:2) (CA INDEX NAME)

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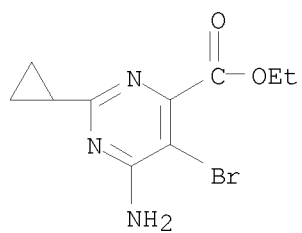
E FOR THIS RECORD
AT

L10 ANSWER 7 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2009:394972 CAPLUS
 DN 150:391610
 TI Preparation of 2-substituted-6-amino-5-alkyl-, alkenyl- or alkynyl-
 4-pyrimidinecarboxylic acids and 6-substituted-4-amino-3-alkyl-, alkenyl-
 or alkynyl- picolinic acids and their use as herbicides
 IN Epp, Jeffrey B.; Schmitzer, Paul R.; Balko, Terry W.; Ruiz, James M.;
 Yerkes, Carla N.; Siddall, Thomas L.; Lo, Willuam C.
 PA Dow Agrosiences LLC, USA
 SO U.S. Pat. Appl. Publ., 30pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20090088322	A1	20090402	US 2008-243469	20081001
	WO 2009046090	A1	20090409	WO 2008-US78423	20081001
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	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRAI	US 2007-997210P	P	20071002		
	US 2008-49536P	P	20080501		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 150:391610
 AB 6-Amino-4-pyrimidinecarboxylic acids having alkyl, alkenyl or alkynyl substituents in the 5-position and 4-aminopicolinic acids having alkyl, alkenyl or alkynyl substituents in the 3-position, and their amine and acid derivs. are prepared, and are potent herbicides demonstrating a broad spectrum of weed control.
 IT 858954-76-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of 2-substituted-6-amino-5-alkyl-, alkenyl- or alkynyl-4-pyrimidinecarboxylic acids and 6-substituted-4-amino-3-alkyl-, alkenyl- or alkynyl- picolinic acids and their use as herbicides)
 RN 858954-76-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



L10 ANSWER 8 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2009:258541 CAPLUS
 DN 150:253885
 TI Granular turf-safe herbicidal compositions aminocyclopyrachlor formulated
 as coating on or impregnation into fertilizer granules
 IN Baker, Robert D.; Kelly, Steven T.; Silcox, Charles A.
 PA E. I. Du Pont de Nemours and Company, USA
 SO PCT Int. Appl., 38pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009029750	A2	20090305	WO 2008-US74728	20080829
	WO 2009029750	A3	20090806		
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	CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES,				
	FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,				
	KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,				
	ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,				
	PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ,				
	TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW:				
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	IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK,				
	TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,				
	TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,				
	AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				

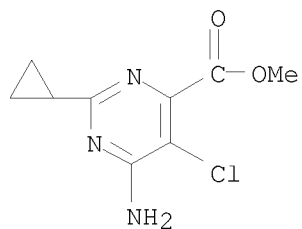
PRAI US 2007-966820P P 20070830

AB Disclosed is a composition comprising (a) one or more compds. selected from the compound (I) (6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid, aminocyclopyrachlor) and salts, esters and thioesters thereof, coated on or impregnated into (b) a granular substrate material. The composition is particularly useful for controlling weeds in turf comprising warm-season turfgrasses without causing significant injury to the turfgrasses. Also disclosed is a method for controlling weeds in turf comprising a warm-season turfgrass without causing significant injury to the turfgrass, the method comprising applying a herbicidally effective amount of the composition to the turf.

IT 858954-83-3D, Aminocyclopyrachlor methyl ester, fertilizer granules coated with 858956-08-8D, Aminocyclopyrachlor, fertilizer granules coated with
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)
 (turf-safe herbicidal compns. of aminocyclopyrachlor formulated as coating on or impregnation into fertilizer granules)

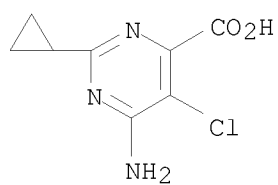
RN 858954-83-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester
 (CA INDEX NAME)



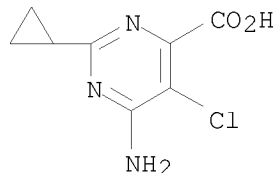
RN 858956-08-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)

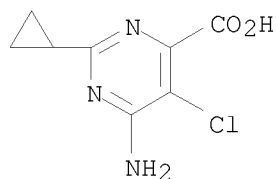


L10 ANSWER 9 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2008:1480203 CAPLUS
 DN 150:49537
 TI Plant genes for cytochromes P 450 conferring resistance to hydroxyphenyl
 pyruvate dioxygenase-inhibiting herbicides
 IN Hawkes, Timothy Robert; Vernooij, Bernardus Theodorus Maria
 PA Syngenta Participations AG, Switz.
 SO PCT Int. Appl., 79pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2008150473	A2	20081211	WO 2008-US6891	20080530
	WO 2008150473	A3	20091230		
	W:		AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW		
	RW:		AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA		
	US 20090011936	A1	20090108	US 2008-156247	20080530
PRAI	US 2007-932560P	P	20070530		
OS	MARPAT 150:49537				
AB	Plant genes for cytochromes P 450 that are capable of using p-hydroxyphenyl pyruvate dioxygenase (HPPD)-inhibiting herbicides as substrates are described for use in improving crop plant resistance to these herbicides. HPPD inhibitors including, benzothiadiazinones, sulfonylureas, and other classes of herbicides may be metabolized by these enzymes. Maize genes conferring cross-resistance to mesotrione and nicosulfuron were mapped and cloned and shown to encoded by the nsf1 gene.				
IT	858956-08-8 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (plant resistance to; plant genes for cytochromes P 450 conferring resistance to HPPD-inhibiting herbicides)				
RN	858956-08-8 CAPLUS				
CN	4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)				



L10 ANSWER 10 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2008:1474221 CAPLUS
 DN 150:49397
 TI Mass spectrometric assessment and analytical methods for quantitation of
 the new herbicide aminocyclopyrachlor and its methyl analogue in soil and
 water
 AU Nanita, Sergio C.; Pentz, Anne M.; Grant, Joann; Vogl, Emily; Devine,
 Timothy J.; Henze, Robert M.
 CS Stine-Haskell Research Center, DuPont Crop Protection, Newark, DE, 19714,
 USA
 SO Analytical Chemistry (Washington, DC, United States (2009), 81(2),
 797-808
 CODEN: ANCHAM; ISSN: 0003-2700
 PB American Chemical Society
 DT Journal
 LA English
 AB Anal. methods have been developed for the detection and quantitation of
 aminocyclopyrachlor and its analog aminocyclopyrachlor Me in environmental
 samples. The analytes were purified from soil exts. and water samples
 using solid phase extraction based on mixed-mode cation exchange/reverse phase
 retention. Analyte identification and quant. analyses were performed by
 HPLC coupled to tandem mass spectrometry by an electrospray ionization
 source. External stds. prepared in neat solvents were used for
 quantitation, providing acceptable accuracy, with no matrix effects observed
 during method validation. The method limits of quantitation (LOQ) were
 0.10 ng/mL (ppb) in water and 1.0 ng/g in soil for both compds. The limit
 of detection (LOD) in water was 20 ng/L (ppt) for aminocyclopyrachlor and
 1 ng/L for aminocyclopyrachlor Me, while LODs in soil were 100 ng/kg and
 10 ng/kg for aminocyclopyrachlor and aminocyclopyrachlor Me, resp. The
 stability of both compds. in various solvents was evaluated as part of
 method development. Tandem mass spectrometry expts. were also conducted
 to investigate the gas-phase fragmentation of aminocyclopyrachlor and its
 Me analog, and the results are reported. A statistical anal. of method
 validation data generated at two labs. by multiple chemists authenticates
 the ruggedness and good reproducibility of the anal. procedures tested.
 IT 858956-08-8, Aminocyclopyrachlor
 RL: ANT (Analyte); ANST (Analytical study)
 (mass spectrometric assessment and anal. methods for quantitation of
 new herbicide aminocyclopyrachlor and its Me analog in soil and water)
 RN 858956-08-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX
 NAME)

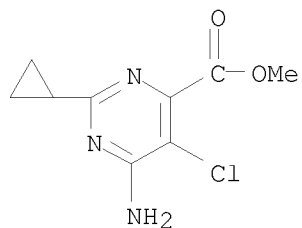


IT 858954-83-3, Aminocyclopyrachlor methyl
 RL: ANT (Analyte); ANST (Analytical study)
 (mass spectrometric determination of aminocyclopyrachlor and its Me analog
 in
 soil and water)

10/581,897 (amended)

RN 858954-83-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester
(CA INDEX NAME)



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

RE.CNT 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 11 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2008:1300379 CAPLUS

DN 149:513856

TI Preparation of nitrogenated fused ring derivatives as antagonists of gonadotropin releasing hormone (GnRh)

IN Yonekubo, Shigeru; Miyagi, Takashi; Ohno, Kohsuke; Kambara, Mikie; Fushimi, Nobuhiko

PA Kissei Pharmaceutical Co., Ltd., Japan

SO PCT Int. Appl., 254pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2008129994	A1	20081030	WO 2008-JP57390	20080416
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	AU 2008241853	A1	20081030	AU 2008-241853	20080416
	CA 2680769	A1	20081030	CA 2008-2680769	20080416
	EP 2143724	A1	20100113	EP 2008-740471	20080416
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR				
PRAI	JP 2007-108926	A	20070418		
	WO 2008-JP57390	W	20080416		

OS MARPAT 149:513856

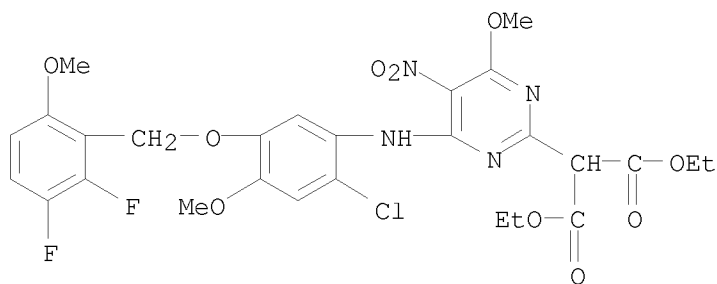
AB Nitrogenated fused ring derivs. such as 1,3-dihydro-2H-imidazo[4,5-b]pyridin-2-one and 7,9-dihydro-8H-purin-8-one derivs. [I; ring A or B = aryl or heteroaryl; R1 R2 = halo, cyano, NO2, each (un)substituted lower alkyl, lower alkenyl, lower alkynyl, lower alkylsulfonyl, lower alkylsulfonyl, aryl, heteroaryl, cycloalkyl, heterocycloalkyl, OH, SH, NH2, or SO2NH2, acyl, etc.; R2 = H, (un)substituted lower alkyl; m = an integer of 0-3; n = an integer of 0-2; E = O, S; U = a single bond (un)substituted lower alkylene; X = Y, CO-Y, SO2-Y, S-L-Y, O-L-Y, CO-L-Y, CO2-L-Y, SO-L-Y, SO2-L-Y, S-Z, O-Z, CO2-Z, N(Q)-L-Y, N(Q)-CO-Y, N(Q)-SO2-Y, N(Q)-L-CO-Y, N(Q)-L-SO2-Y, N(Q)-CO-L-Y, N(Q)-SO2-L-Y; L = (un)substituted lower alkylene, Y = Z, (un)substituted NH2; Z = cycloalkyl, heterocycloalkyl, aryl, or heteroaryl each optionally fused and/or substituted; Q = H, acyl, each (un)substituted alkyl, aryl, heteroaryl, cycloalkyl, or heterocycloalkyl, etc.], prodrugs thereof or pharmaceutically acceptable salts thereof were prepared These compds. are antagonists of gonadotropin releasing hormone (GnRh), also called as LH releasing hormone (LHRH) and are as prophylactic or therapeutic agents for a sex hormone-dependent disease, reproduction regulators, contraceptive agents, fertility drugs, or prophylactic agents for recurrence of cancer after surgery of sex hormone-dependent cancer. The sex hormone-dependent

disease includes prostatic hypertrophy, hysterosioma, endometriosis, uterine fibroma, true precocious puberty, amenorrhea, premenstrual syndromes, dysmenorrhea, polycystic ovary syndromes, lupus erythematosus, hypertrichosis, dwarfism, sleep disorder, acne, alopecia, Alzheimer's disease, sterility, irritable bowel syndrome, prostate cancer, uterine cancer, ovarian cancer, breast cancer, or pituitary tumor. Thus, azidolysis of 2-chloro-4-[2-chloro-5-(2,3-difluoro-6-methoxybenzyloxy)-4-methoxyphenylamino]-6-methylpyrimidine-5-carboxylic acid Me ester with NaN₃ in aqueous DMF solution at 60°C for 2 h, followed by hydrogenation over 10% Pt-C in a mixture for THF and MeOH under H atmospheric at room temperature for 3 h, saponification with NaOH in aqueous THF solution at 60°C for 2 h, and acidification with 1 M aqueous HCl solution gave 2-amino-4-[2-chloro-5-(2,3-difluoro-6-methoxybenzyloxy)-4-methoxyphenylamino]-6-methylpyrimidine-5-carboxylic acid (II). II was heated with diphenylphosphoryl azide and Et₃N in a mixture of 1,4-dioxane and THF at 100°C overnight to give 2-amino-9-[2-chloro-5-(2,3-difluoro-6-methoxybenzyloxy)-4-methoxyphenyl]-6-methyl-7,9-dihydro-8H-purin-8-one (III). III and the compound (IV) in vitro showed IC₅₀ values of 36 and 15 μM, resp., for inhibiting the GnRh-stimulated mobility of cellular calcium in HEK 293 cell stably expressing human GnRh.

IT 1073438-29-5P, Diethyl 2-[4-[[2-Chloro-5-[(2,3-difluoro-6-methoxybenzyl)oxy]-4-methoxyphenyl]amino]-6-methoxy-5-nitropyrimidin-2-yl]malonate
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of nitrogenated fused ring derivs. as antagonists of gonadotropin releasing hormone (GnRh))

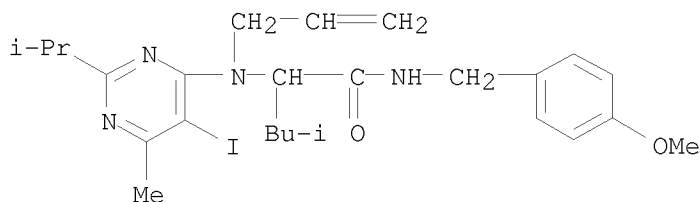
RN 1073438-29-5 CAPLUS

CN Propanedioic acid, 2-[4-[[2-chloro-5-[(2,3-difluoro-6-methoxyphenyl)methoxy]-4-methoxyphenyl]amino]-6-methoxy-5-nitro-2-pyrimidinyl]-, 1,3-diethyl ester (CA INDEX NAME)

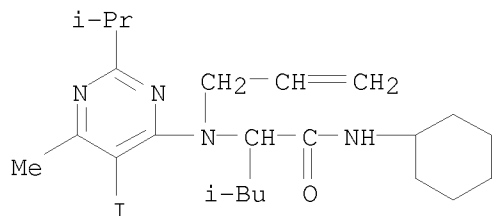


RE.CNT 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

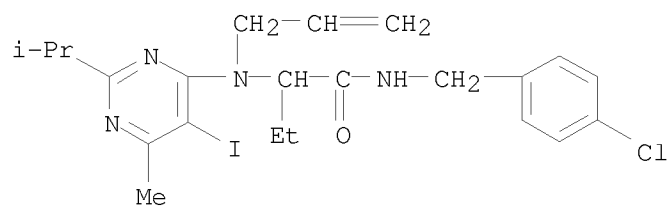
L10 ANSWER 12 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2008:837528 CAPLUS
 DN 149:200740
 TI New MCR-Heck-Isomerization Cascade toward Indoles
 AU El Kaim, Laurent; Gizzi, Marion; Grimaud, Laurence
 CS Laboratoire Chimie et Procédés, Ecole Nationale Supérieure de Techniques
 Avancées, Paris, 75739, Fr.
 SO Organic Letters (2008), 10(16), 3417-3419
 CODEN: ORLEF7; ISSN: 1523-7060
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 149:200740
 AB The use of ortho-iodonitrophenol in Ugi-Smiles reaction to afford adducts
 such as I, coupled with Heck cyclization gives new access to indole
 scaffolds, e.g., II. The sequence can be performed in a one-pot reaction
 if the residual isocyanide is neutralized prior to the addition of the
 palladium catalyst.
 IT 1040741-70-5P 1040741-71-6P 1040741-72-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of [allyl(iodoaryl)amino]amides via Ugi-Smiles coupling between
 aldehydes, allylamines, isocyanides, and aryl or heteroaryl phenols)
 RN 1040741-70-5 CAPLUS
 CN Pentanamide, 2-[[5-iodo-6-methyl-2-(1-methylethyl)-4-pyrimidinyl]-2-propen-
 1-ylamino]-N-[(4-methoxyphenyl)methyl]-4-methyl- (CA INDEX NAME)



RN 1040741-71-6 CAPLUS
 CN Pentanamide, N-cyclohexyl-2-[[5-iodo-6-methyl-2-(1-methylethyl)-4-
 pyrimidinyl]-2-propen-1-ylamino]-4-methyl- (CA INDEX NAME)



RN 1040741-72-7 CAPLUS
 CN Butanamide, N-[(4-chlorophenyl)methyl]-2-[[5-iodo-6-methyl-2-(1-
 methylethyl)-4-pyrimidinyl]-2-propen-1-ylamino]- (CA INDEX NAME)



OSC.G	8	THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)
RE.CNT	17	THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 13 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2008:734540 CAPLUS
 DN 149:47019
 TI Herbicidal mixtures comprising pyrimidinecarboxylates and dihydroisoxazoles
 IN Armel, Gregory R.; Hong, Wonpyo
 PA E. I. Du Pont De Nemours and Company, USA
 SO PCT Int. Appl., 36pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008073369	A1	20080619	WO 2007-US25224	20071210
W: AE, AG, AL, AM, AN, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRAI US 2006-874359P P 20061212

OS MARPAT 149:47019

AB A herbicidal mixture comprises (a) ≥ 1 herbicidal pyrimidine I (R1 = cyclopropyl, 4-bromophenyl, 4-chlorophenyl; X = Cl, Br; R2 = H, C1-14 alkyl, C2-14 alkoxyalkyl, C3-14 alkoxyalkoxyalkyl, C2-14 hydroxyalkyl, benzyl) or N-oxide or salt thereof and (b) ≥ 1 herbicidal compound the formula II (R3 = H, halo, C1-6 alkyl, C2-6 alkoxyalkyl, etc.; R4 = H, halo, C1-6 alkyl, haloalkyl, etc.; W = O, NR5; R5 = H, halo, CN, etc.; G = Ph or heteroaryl, optionally substituted) or N-oxide or salt thereof. The growth of undesired vegetation is controlled by contacting the vegetation or its environment with a herbicidally effective amount of a composition comprising a mixture of the invention and optionally further comprising ≥ 1 other herbicide. Thus, I (R1 = cyclopropyl, R2 = Me, X = Cl) + pyroxasulfone at 50 + 12.5 g/ha completely controlled velvetleaf (*Abutilon theophrasti*) and redroot pigweed (*Amaranthus retroflexus*), with no effect on corn in a greenhouse trial. The observed effect for both weeds was greater than the expected effect.

IT 858954-76-4D, mixts. containing 858954-77-5D, mixts. containing 858954-79-7D, Ethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate, mixts. containing 858954-82-2D, mixts. containing 858954-83-3D, Methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate, mixts. containing 858954-96-8D, mixts. containing 858955-48-3D, mixts. containing 858955-49-4D, mixts. containing 858955-50-7D, mixts. containing 858955-51-8D, mixts. containing 858955-86-9D, mixts. containing 858956-08-8D, 6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid, mixts. containing 858956-12-4D, mixts. containing 858956-14-6D, mixts. containing 858956-15-7D, mixts. containing 858956-43-1D, mixts. containing 858956-44-2D, mixts. containing

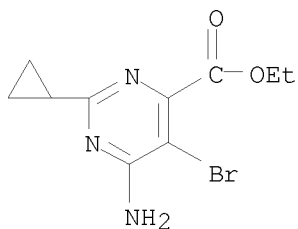
858956-45-3D, mixts. containing 858956-46-4D, mixts.
containing 945623-25-6D, mixts. containing 1032351-24-8
1032351-26-0 1032351-28-2 1032351-30-6

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
(Biological study); USES (Uses)

(herbicidal mixts. comprising pyrimidinecarboxylates and
dihydroisoxazoles and optionally further herbicide)

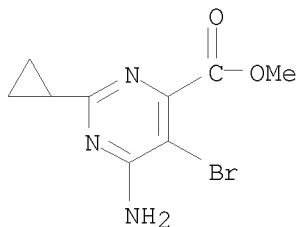
RN 858954-76-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester
(CA INDEX NAME)



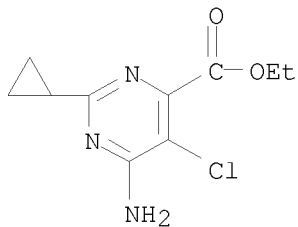
RN 858954-77-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester
(CA INDEX NAME)



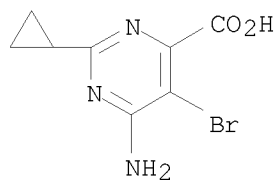
RN 858954-79-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester
(CA INDEX NAME)

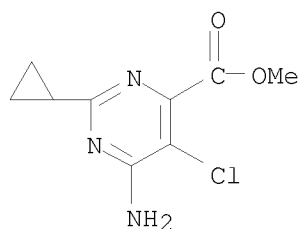


RN 858954-82-2 CAPLUS

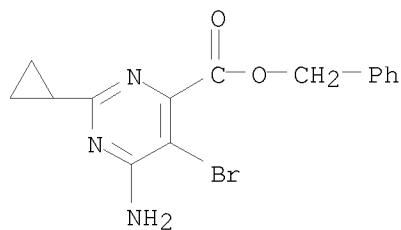
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX
NAME)



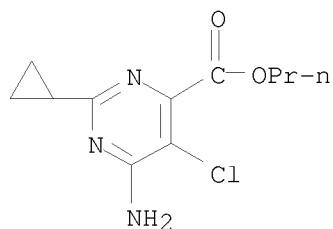
RN 858954-83-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester
(CA INDEX NAME)

RN 858954-96-8 CAPLUS

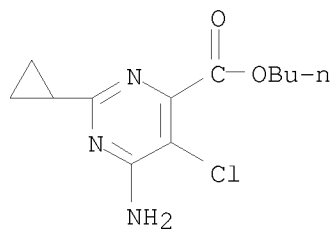
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenylmethyl
ester (CA INDEX NAME)

RN 858955-48-3 CAPLUS

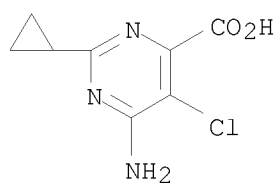
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester
(CA INDEX NAME)

RN 858955-49-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester
(CA INDEX NAME)

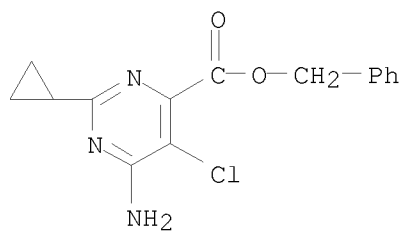


RN 858955-50-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, sodium salt
 (1:1) (CA INDEX NAME)

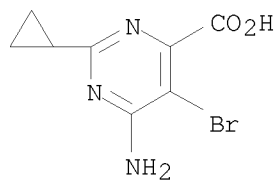


● Na

RN 858955-51-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl
 ester (CA INDEX NAME)

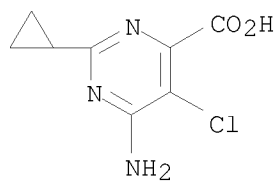


RN 858955-86-9 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, sodium salt
 (1:1) (CA INDEX NAME)

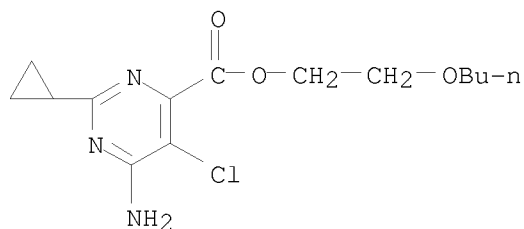


● Na

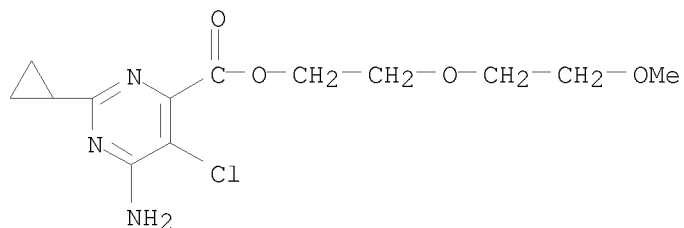
RN 858956-08-8 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



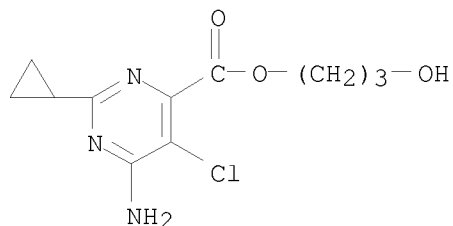
RN 858956-12-4 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-butoxyethyl ester (CA INDEX NAME)



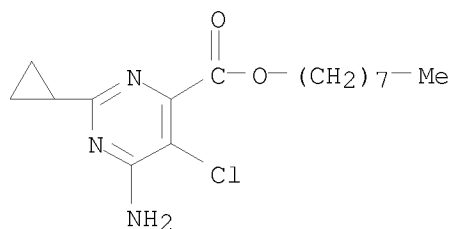
RN 858956-14-6 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-(2-methoxyethoxy)ethyl ester (CA INDEX NAME)



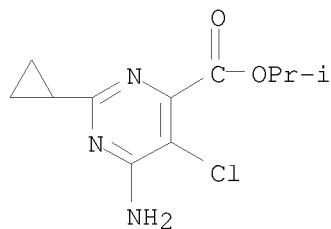
RN 858956-15-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 3-hydroxypropyl ester (CA INDEX NAME)



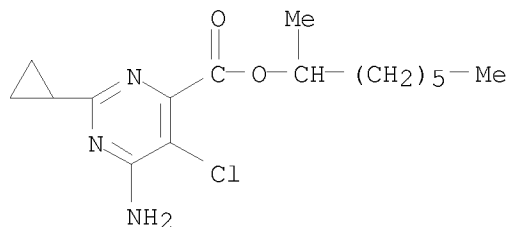
RN 858956-43-1 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester
 (CA INDEX NAME)



RN 858956-44-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 1-methylethyl ester (CA INDEX NAME)

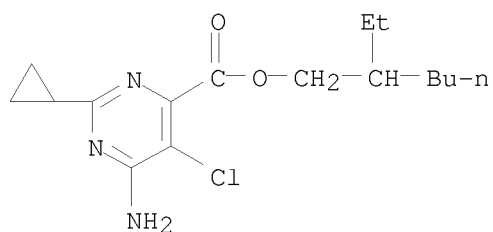


RN 858956-45-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 1-methylheptyl ester (CA INDEX NAME)



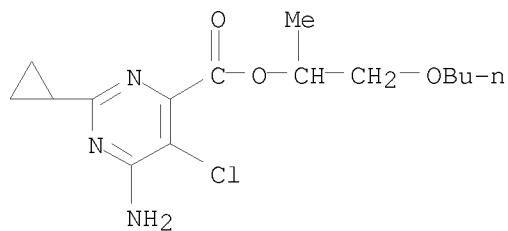
RN 858956-46-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl ester (CA INDEX NAME)



RN 945623-25-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-butoxy-1-methylethyl ester (CA INDEX NAME)



RN 1032351-24-8 CAPLUS

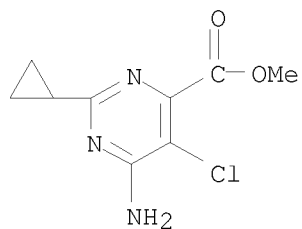
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 3-[[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole (CA INDEX NAME)

CM 1

CRN 858954-83-3

CMF C9 H10 Cl N3 O2

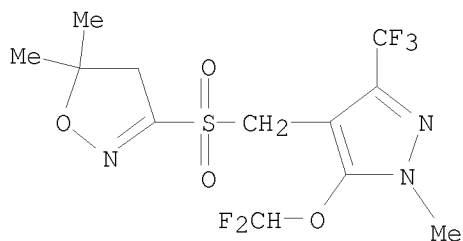
10/581,897 (amended)



CM 2

CRN 447399-55-5

CMF C12 H14 F5 N3 O4 S



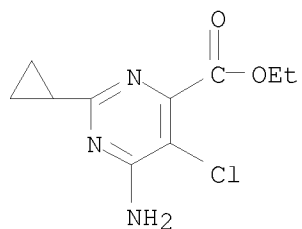
RN 1032351-26-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester, mixt. with 3-[[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole (CA INDEX NAME)

CM 1

CRN 858954-79-7

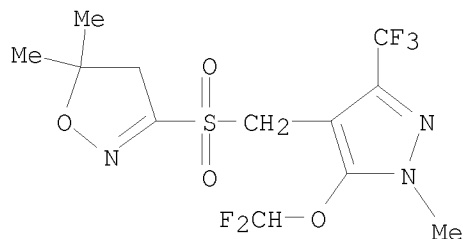
CMF C10 H12 Cl N3 O2



CM 2

CRN 447399-55-5

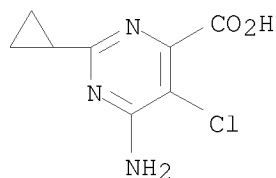
CMF C12 H14 F5 N3 O4 S



RN 1032351-28-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with
 3-[[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-
 yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole (CA INDEX NAME)

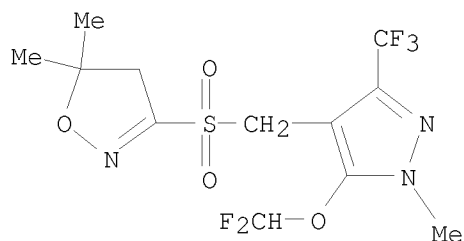
CM 1

CRN 858956-08-8
 CMF C8 H8 Cl N3 O2



CM 2

CRN 447399-55-5
 CMF C12 H14 F5 N3 O4 S

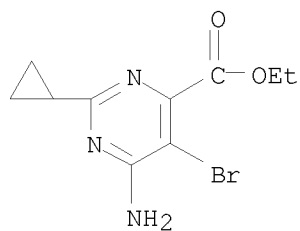


RN 1032351-30-6 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester,
 mixt. with 3-[[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-
 pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole (CA INDEX
 NAME)

CM 1

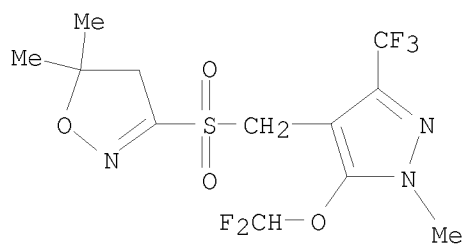
10/581,897 (amended)

CRN 858954-76-4
CMF C10 H12 Br N3 O2



CM 2

CRN 447399-55-5
CMF C12 H14 F5 N3 O4 S



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 14 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2007:1204767 CAPLUS
 DN 147:502388
 TI Preparation of piperazine derivatives as hepatitis C virus (HCV)
 polymerase inhibitors
 IN Abe, Hiroyuki; Tanaka, Masahiro; Sugimoto, Kazuyuki; Suma, Akira; Yokota,
 Masahiro; Shiozaki, Makoto; Iio, Kiyosei; Ueyama, Kazuhito; Motoda, Dai;
 Noguchi, Toru; Adachi, Tsuyoshi; Tsuruha, Junichiro; Doi, Satoki
 PA Japan Tobacco Inc., Japan
 SO PCT Int. Appl., 1027pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007119889	A1	20071025	WO 2007-JP58901	20070418
	W: AE, AG, AL, AM, AN, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	US 20080081818	A1	20080403	US 2007-736064	20070417
	AU 2007239285	A1	20071025	AU 2007-239285	20070418
	CA 2649521	A1	20071025	CA 2007-2649521	20070418
	EP 2009004	A1	20081231	EP 2007-742336	20070418
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
	MX 2008013545	A	20081029	MX 2008-13545	20081020
	KR 2009008362	A	20090121	KR 2008-728129	20081118
	IN 2008CN06273	A	20090327	IN 2008-CN6273	20081118
	CN 101472902	A	20090701	CN 2007-80022736	20081218
PRAI	JP 2006-115008	A	20060418		
	US 2006-796565P	P	20060501		
	WO 2007-JP58901	W	20070418		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 147:502388

AB The title compds. I [ring A = (un)substituted carbocyclic ring, (un)substituted heterocyclic ring; n = integer of 1 - 6; ring B = (un)substituted carbocyclic ring, (un)substituted heterocyclic ring; R = H, COR1, CO2R2, etc.; R1, R2 = H, (un)substituted alkyl] are prepared Thus, (R)-1-(4-trifluoromethylbenzenesulfonyl)piperazine-2-carboxylic acid 4-isopropylbenzylamide hydrochloride was prepared in a 3-step process starting from (R)-piperazine-2-carboxylic acid 2HCl salt, di-tert-Bu dicarbonate, and 4-trifluoromethylbenzenesulfonyl chloride. The HCV polymerase inhibiting activity of compds. of this invention was demonstrated. A formulation containing a title compound is given.

IT 954388-43-3P

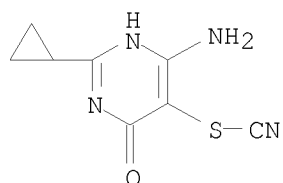
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation of piperazine derivs. as hepatitis C virus polymerase inhibitors)

RN 954388-43-3 CAPLUS

CN Thiocyanic acid, 4-amino-2-cyclopropyl-1,6-dihydro-6-oxo-5-pyrimidinyl ester (CA INDEX NAME)



RE.CNT 73 THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 15 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2007:1204062 CAPLUS
 DN 147:463424
 TI Herbicidal mixtures comprising pyrimidine derivatives
 IN Armel, Gregory Russell; Casini, Mark S.; Cotterman, Josephine Cecilia;
 Hidalgo, Edison; Link, Michael L.; Rardon, Patrick L.; Saunders, David
 William; Strachan, Stephen D.
 PA E. I. du Pont de Nemours and Company, USA
 SO PCT Int. Appl., 123 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007120706	A2	20071025	WO 2007-US8930	20070410
	WO 2007120706	A3	20080529		
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	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
	AU 2007238732	A1	20071025	AU 2007-238732	20070410
	CA 2646143	A1	20071025	CA 2007-2646143	20070410
	EP 2003972	A2	20081224	EP 2007-755262	20070410
	R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS			
	JP 2009533448	T	20090917	JP 2009-505457	20070410
	IN 2008DN07403	A	20080926	IN 2008-DN7403	20080829
	MX 2008012995	A	20081017	MX 2008-12995	20081008
	CN 101420852	A	20090429	CN 2007-80013032	20081010
	KR 2009024120	A	20090306	KR 2008-727364	20081107
PRAI	US 2006-790659P	P	20060410		
	US 2006-852139P	P	20061017		
	WO 2007-US8930	W	20070410		

OS MARPAT 147:463424

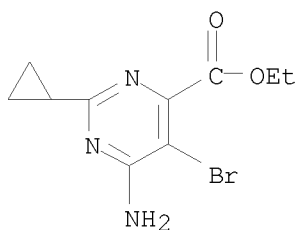
AB Disclosed is a herbicidal mixture comprising a pyrimidine derivative I (R1 = cyclopropyl, 4-bromophenyl or 4-chlorophenyl; X = Cl or Br; R2 = H, alkyl, alkoxyalkyl, alkoxyalkoxyalkyl, hydroxyalkyl or benzyl) or I N-oxides or salts, and at least one addnl. herbicide or herbicide safener selected from ACCase inhibitors, AHAS inhibitors, photosystem II inhibitors, photosystem I electron diverters, PPO inhibitors, EPSP synthase inhibitors, GS inhibitors, VLCFA inhibitors, auxin mimics, auxin transport inhibitors, and other herbicides selected from flamprop-M-Me, flamprop-M-iso-Pr, difenzoquat, DSMA, MSMA, bromobutide, flurenol, cinmethylin, cumyluron, dazomet, dymron, methyldymron, etobenzanid, fosamine-ammonium, isoxaflutole, asulam, clomazone, mesotrione, metam, oxaziclomefone, oleic acid, pelargonic acid and pyributicarb, as well as herbicide safeners selected from benoxacor,

1-bromo-4-[(chloromethyl)sulfonyl]benzene, cloquintocet-mexyl, cyometrinil, dichlormid, 2-(dichloromethyl)-2-methyl-1,3-dioxolane, fenchlorazole-Et, fenclorim, flurazole, fluxofenim, furilazole, isoxadifen-Et, mefenpyr-diethyl, methoxyphenone, naphthalic anhydride and oxabetrinil, and their salts.

IT 858954-76-4D, mixts. containing 858954-77-5D, mixts. containing 858954-79-7D, Ethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate, mixts. containing 858954-82-2D, mixts. containing 858954-83-3D, Methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate, mixts. containing 858954-96-8D, mixts. containing 858955-48-3D, mixts. containing 858955-49-4D, mixts. containing 858955-50-7D, mixts. containing 858955-51-8D, mixts. containing 858955-86-9D, mixts. containing 858956-08-8D, 6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid, mixts. containing 858956-12-4D, mixts. containing 858956-14-6D, mixts. containing 858956-15-7D, mixts. containing 858956-43-1D, mixts. containing 858956-44-2D, mixts. containing 858956-45-3D, mixts. containing 858956-46-4D, mixts. containing 945623-25-6D, mixts. containing RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (herbicidal compns.)

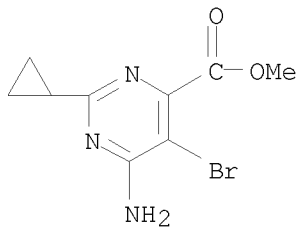
RN 858954-76-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



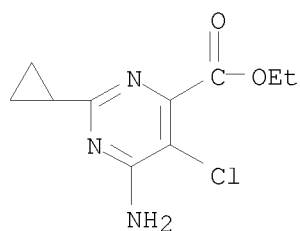
RN 858954-77-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester (CA INDEX NAME)

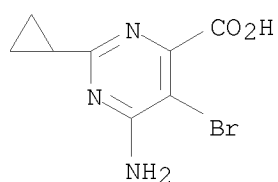


RN 858954-79-7 CAPLUS

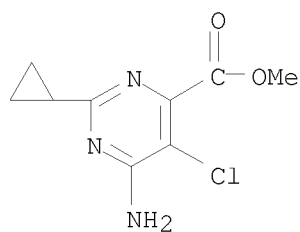
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



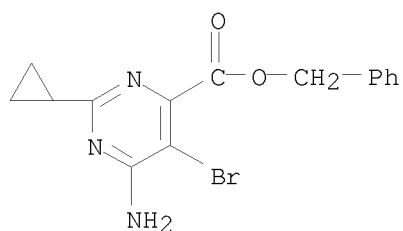
RN 858954-82-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)



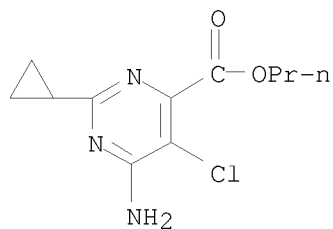
RN 858954-83-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



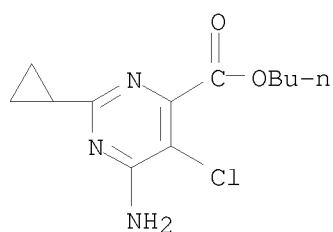
RN 858954-96-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



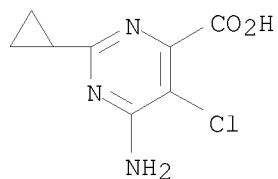
RN 858955-48-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester (CA INDEX NAME)



RN 858955-49-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester
 (CA INDEX NAME)

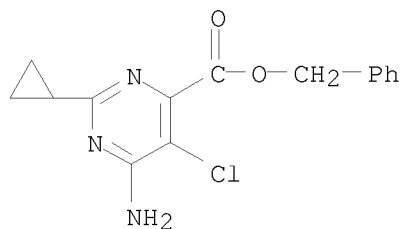


RN 858955-50-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, sodium salt
 (1:1) (CA INDEX NAME)



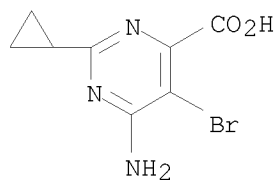
● Na

RN 858955-51-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl
 ester (CA INDEX NAME)



RN 858955-86-9 CAPLUS

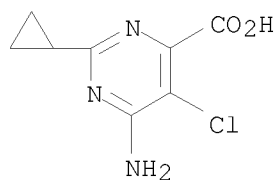
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, sodium salt
(1:1) (CA INDEX NAME)



● Na

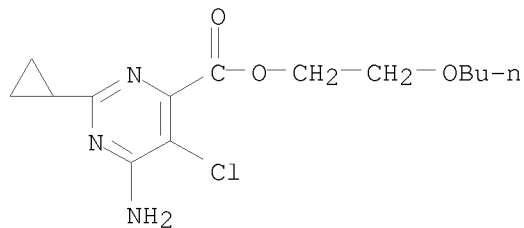
RN 858956-08-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX
NAME)

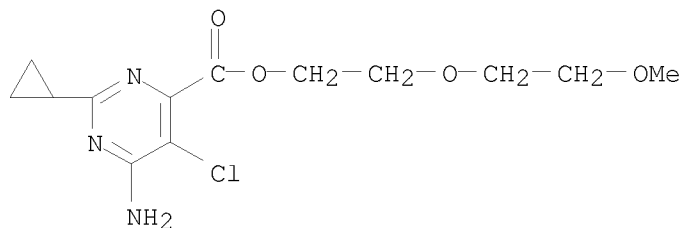


RN 858956-12-4 CAPLUS

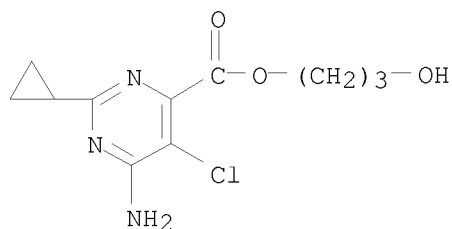
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
2-butoxyethyl ester (CA INDEX NAME)



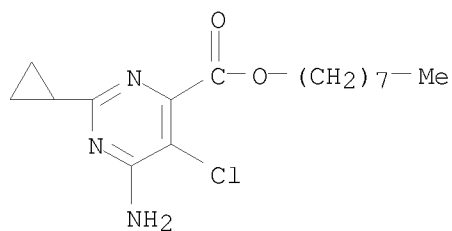
RN 858956-14-6 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 2-(2-methoxyethoxy)ethyl ester (CA INDEX NAME)



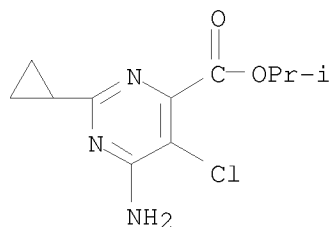
RN 858956-15-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 3-hydroxypropyl ester (CA INDEX NAME)



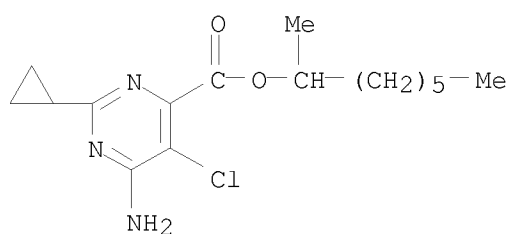
RN 858956-43-1 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester
 (CA INDEX NAME)



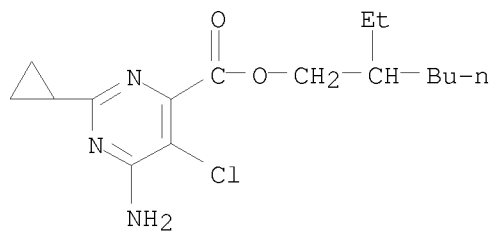
RN 858956-44-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 1-methylethyl ester (CA INDEX NAME)



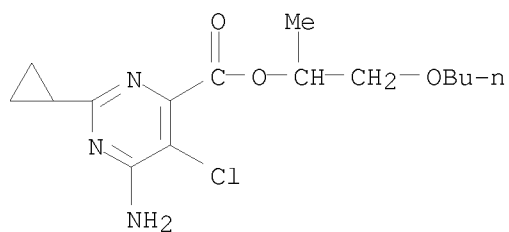
RN 858956-45-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
1-methylheptyl ester (CA INDEX NAME)

RN 858956-46-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl
ester (CA INDEX NAME)

RN 945623-25-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
2-butoxy-1-methylethyl ester (CA INDEX NAME)

IT 952660-55-8

952660-56-9

952660-59-2

952660-60-5	952660-62-7	952660-63-8
952660-64-9	952660-65-0	952660-66-1
952660-67-2	952660-69-4	952660-70-7
952660-71-8	952660-72-9	952660-73-0
952660-74-1	952660-75-2	952660-76-3
952660-77-4	952660-78-5	952660-79-6
952660-80-9	952660-81-0	952660-82-1
952660-83-2	952660-84-3	952660-85-4
952660-86-5	952660-87-6	952660-88-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(herbicidal mixture)

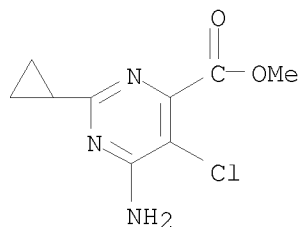
RN 952660-55-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 6-chloro-N2-ethyl-N4-(1-methylethyl)-1,3,5-triazine-2,4-diamine (CA INDEX NAME)

CM 1

CRN 858954-83-3

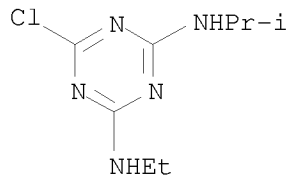
CMF C9 H10 Cl N3 O2



CM 2

CRN 1912-24-9

CMF C8 H14 Cl N5



RN 952660-56-9 CAPLUS

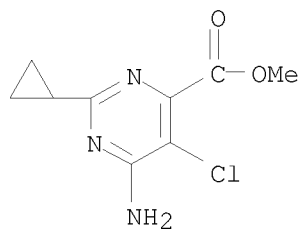
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-chloro-N-(2-ethyl-6-methylphenyl)-N-[(1S)-2-methoxy-1-methylethyl]acetamide (CA INDEX NAME)

CM 1

CRN 858954-83-3

CMF C9 H10 Cl N3 O2

10/581,897 (amended)

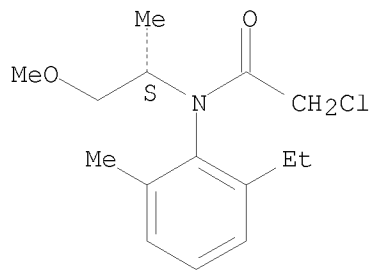


CM 2

CRN 87392-12-9

CMF C15 H22 Cl N O2

Absolute stereochemistry. Rotation (-).



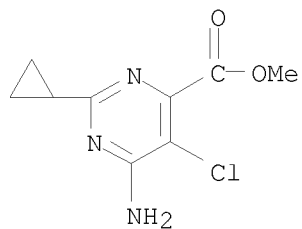
RN 952660-59-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with (2R)-2-[4-[(5-chloro-3-fluoro-2-pyridinyl)oxy]phenoxy]propanoic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

CMF C9 H10 Cl N3 O2

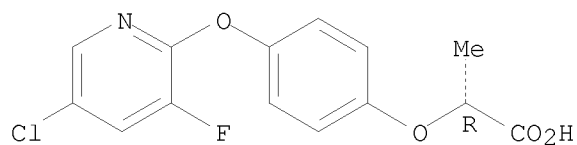


CM 2

CRN 114420-56-3

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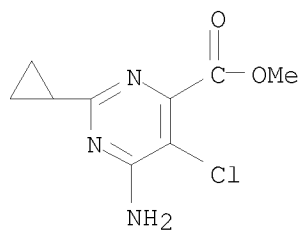
Absolute stereochemistry.



RN 952660-60-5 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]propanoic acid (CA INDEX NAME)

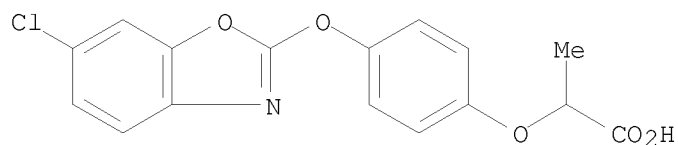
CM 1

CRN 858954-83-3
 CMF C9 H10 Cl N3 O2



CM 2

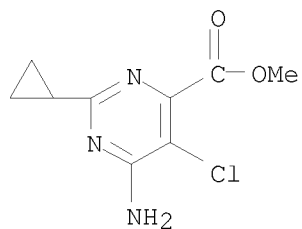
CRN 95617-09-7
 CMF C16 H12 Cl N O5



RN 952660-62-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester, mixt. with methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate (CA INDEX NAME)

CM 1

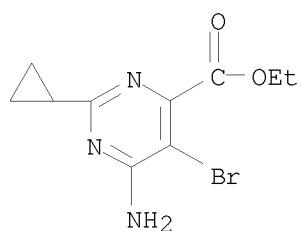
CRN 858954-83-3
 CMF C9 H10 Cl N3 O2



CM 2

CRN 858954-76-4

CMF C10 H12 Br N3 O2



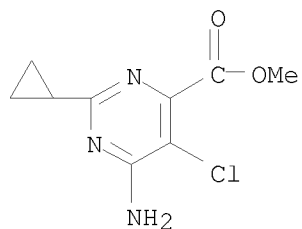
RN 952660-63-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)acetamide (CA INDEX NAME)

CM 1

CRN 858954-83-3

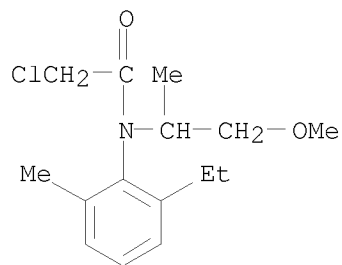
CMF C9 H10 Cl N3 O2



CM 2

CRN 51218-45-2

CMF C15 H22 Cl N O2



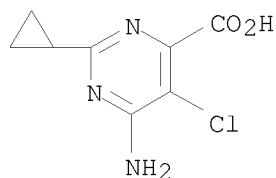
RN 952660-64-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with
6-chloro-N2-ethyl-N4-(1-methylethyl)-1,3,5-triazine-2,4-diamine (CA INDEX
NAME)

CM 1

CRN 858956-08-8

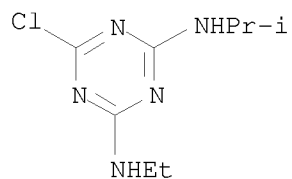
CMF C8 H8 Cl N3 O2



CM 2

CRN 1912-24-9

CMF C8 H14 Cl N5



RN 952660-65-0 CAPLUS

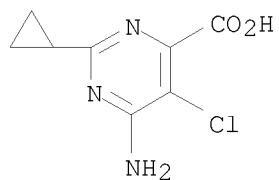
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with
2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)acetamide
(CA INDEX NAME)

CM 1

CRN 858956-08-8

CMF C8 H8 Cl N3 O2

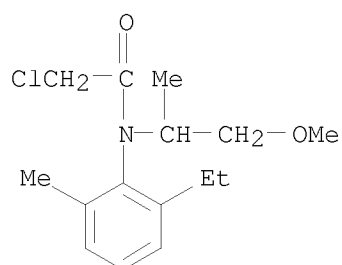
10/581,897 (amended)



CM 2

CRN 51218-45-2

CMF C15 H22 Cl N O2



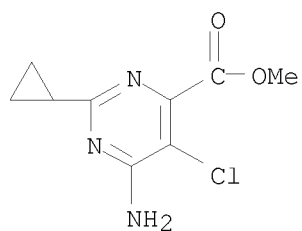
RN 952660-66-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with N'-(3,4-dichlorophenyl)-N,N-dimethylurea (CA INDEX NAME)

CM 1

CRN 858954-83-3

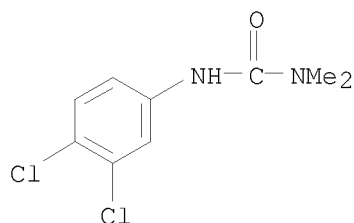
CMF C9 H10 Cl N3 O2



CM 2

CRN 330-54-1

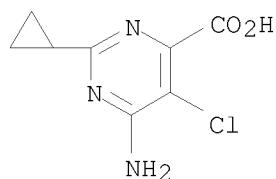
CMF C9 H10 Cl2 N2 O



RN 952660-67-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with
 N'-(3,4-dichlorophenyl)-N,N-dimethylurea (CA INDEX NAME)

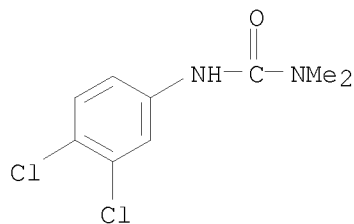
CM 1

CRN 858956-08-8
 CMF C8 H8 Cl N3 O2



CM 2

CRN 330-54-1
 CMF C9 H10 Cl2 N2 O

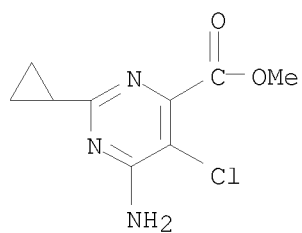


RN 952660-69-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl
 ester, mixt. with N-[[[4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-
 (ethylsulfonyl)-2-pyridinesulfonamide (CA INDEX NAME)

CM 1

CRN 858954-83-3
 CMF C9 H10 Cl N3 O2

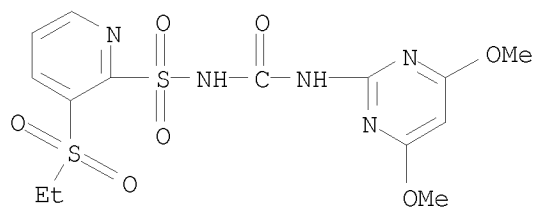
10/581,897 (amended)



CM 2

CRN 122931-48-0

CMF C14 H17 N5 O7 S2



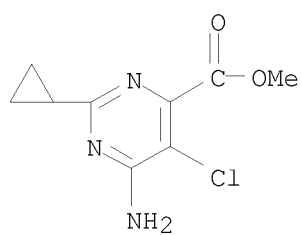
RN 952660-70-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4-(trifluoromethyl)benzene (CA INDEX NAME)

CM 1

CRN 858954-83-3

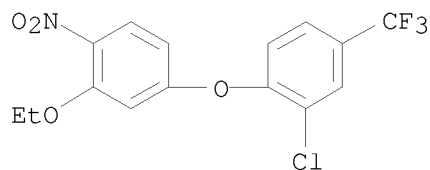
CMF C9 H10 Cl N3 O2



CM 2

CRN 42874-03-3

CMF C15 H11 Cl F3 N O4



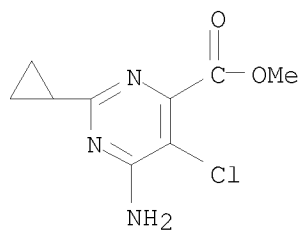
RN 952660-71-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 1-chloro-N-[2-chloro-4-fluoro-5-[(6S,7aR)-6-fluorotetrahydro-1,3-dioxo-1H-pyrrolo[1,2-c]imidazol-2(3H)-yl]phenyl]methanesulfonamide (CA INDEX NAME)

CM 1

CRN 858954-83-3

CMF C9 H10 Cl N3 O2

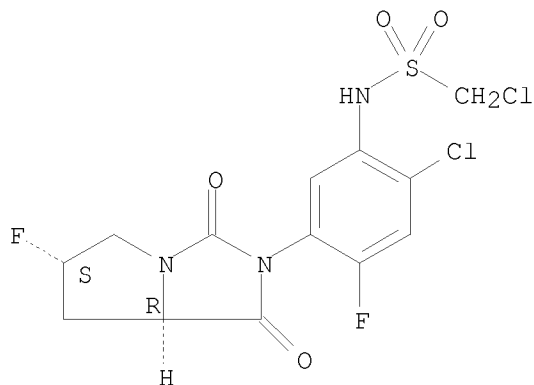


CM 2

CRN 190314-43-3

CMF C13 H11 Cl2 F2 N3 O4 S

Absolute stereochemistry.



RN 952660-72-9 CAPLUS

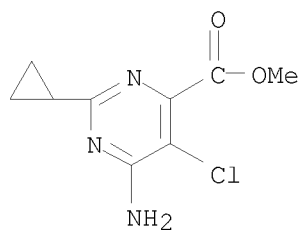
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl

ester, mixt. with 5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

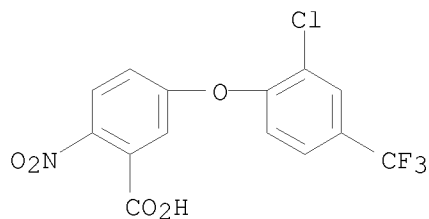
CMF C9 H10 Cl N3 O2



CM 2

CRN 50594-66-6

CMF C14 H7 Cl F3 N O5



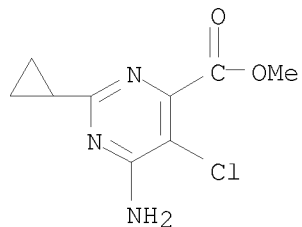
RN 952660-73-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propyn-1-yl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoindole-1,3(2H)-dione (CA INDEX NAME)

CM 1

CRN 858954-83-3

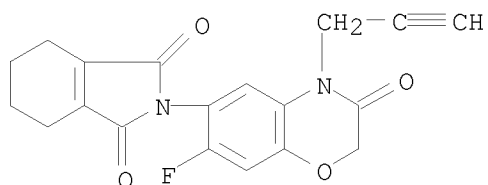
CMF C9 H10 Cl N3 O2



CM 2

CRN 103361-09-7

CMF C19 H15 F N2 O4



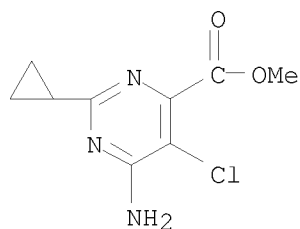
RN 952660-74-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with α ,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

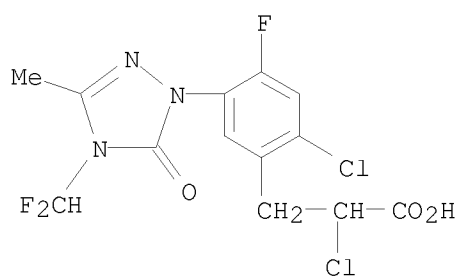
CMF C9 H10 Cl N3 O2



CM 2

CRN 128621-72-7

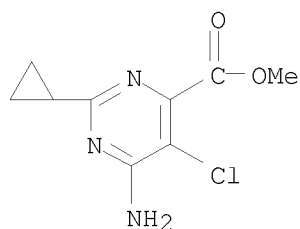
CMF C13 H10 Cl2 F3 N3 O3



RN 952660-75-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]methanesulfonamide (CA INDEX NAME)

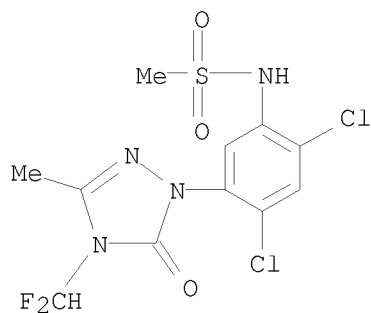
CM 1

CRN 858954-83-3
 CMF C9 H10 Cl N3 O2



CM 2

CRN 122836-35-5
 CMF C11 H10 Cl2 F2 N4 O3 S

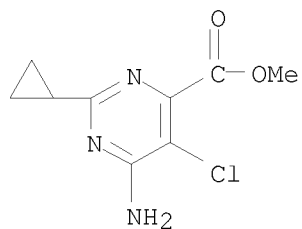


RN 952660-76-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[2,4-dichloro-5-(2-propyn-1-yloxy)phenyl]-5,6,7,8-tetrahydro-1,2,4-triazolo[4,3-a]pyridin-3(2H)-one (CA INDEX NAME)

CM 1

CRN 858954-83-3
 CMF C9 H10 Cl N3 O2

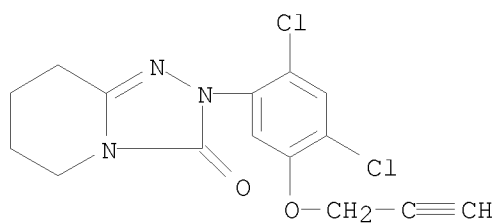
10/581,897 (amended)



CM 2

CRN 68049-83-2

CMF C15 H13 Cl2 N3 O2



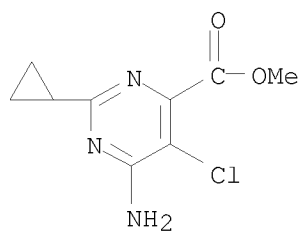
RN 952660-77-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-(2,4-dichlorophenoxy)acetic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

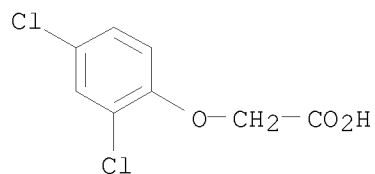
CMF C9 H10 Cl N3 O2



CM 2

CRN 94-75-7

CMF C8 H6 Cl2 O3



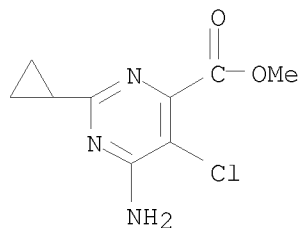
RN 952660-78-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-(4-chloro-2-methylphenoxy)acetic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

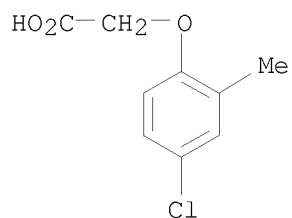
CMF C9 H10 Cl N3 O2



CM 2

CRN 94-74-6

CMF C9 H9 Cl O3



RN 952660-79-6 CAPLUS

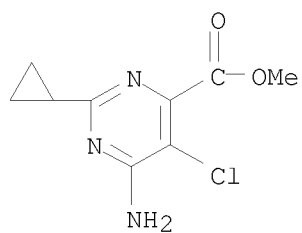
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[(4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy]acetic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

CMF C9 H10 Cl N3 O2

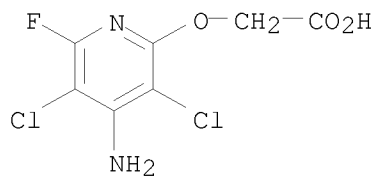
10/581,897 (amended)



CM 2

CRN 69377-81-7

CMF C7 H5 Cl2 F N2 O3



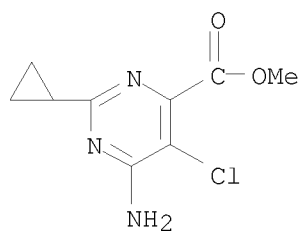
RN 952660-80-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[1-[2-[(3,5-difluorophenyl)amino]carbonyl]hydrazinylidene]ethyl]-3-pyridinecarboxylic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

CMF C9 H10 Cl N3 O2

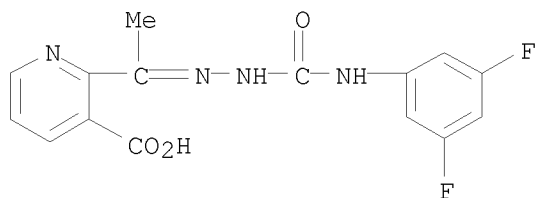


CM 2

CRN 109293-97-2

CMF C15 H12 F2 N4 O3

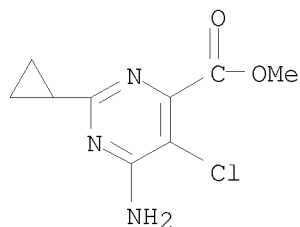
10/581,897 (amended)



RN 952660-81-0 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-N,N-dimethyl-3-pyridinecarboxamide (CA INDEX NAME)

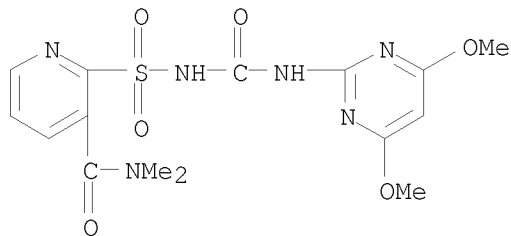
CM 1

CRN 858954-83-3
CMF C9 H10 Cl N3 O2



CM 2

CRN 111991-09-4
CMF C15 H18 N6 O6 S



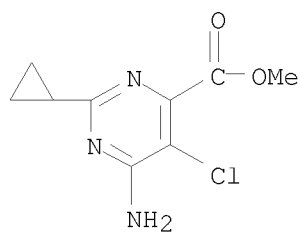
RN 952660-82-1 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-2-thiophenecarboxylate (CA INDEX NAME)

CM 1

CRN 858954-83-3

10/581,897 (amended)

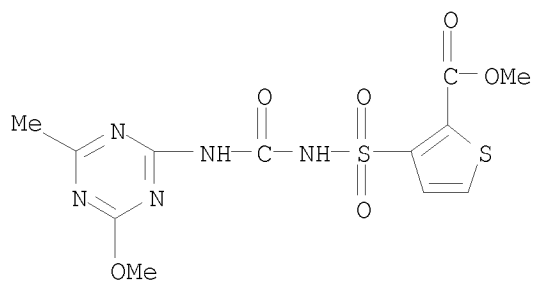
CMF C9 H10 Cl N3 O2



CM 2

CRN 79277-27-3

CMF C12 H13 N5 O6 S2



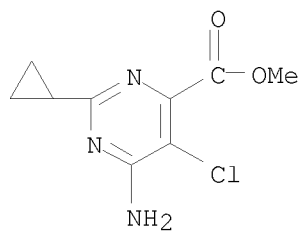
RN 952660-83-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino]carbonyl]amino]sulfonyl]benzoate (CA INDEX NAME)

CM 1

CRN 858954-83-3

CMF C9 H10 Cl N3 O2

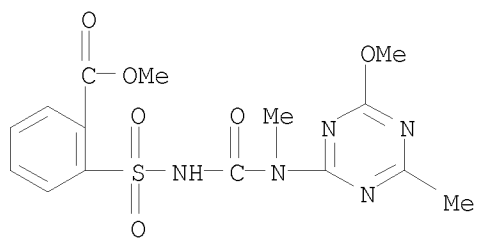


CM 2

CRN 101200-48-0

10/581,897 (amended)

CMF C15 H17 N5 O6 S



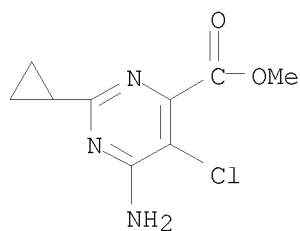
RN 952660-84-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with ethyl 4,5-dihydro-5,5-diphenyl-3-isoxazolecarboxylate (CA INDEX NAME)

CM 1

CRN 858954-83-3

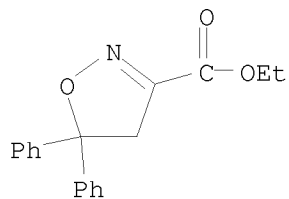
CMF C9 H10 Cl N3 O2



CM 2

CRN 163520-33-0

CMF C18 H17 N O3



RN 952660-85-4 CAPLUS

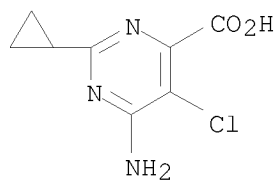
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with 1H,3H-naphtho[1,8-cd]pyran-1,3-dione (CA INDEX NAME)

CM 1

CRN 858956-08-8

10/581,897 (amended)

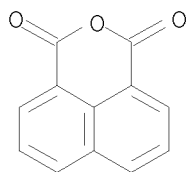
CMF C8 H8 Cl N3 O2



CM 2

CRN 81-84-5

CMF C12 H6 O3



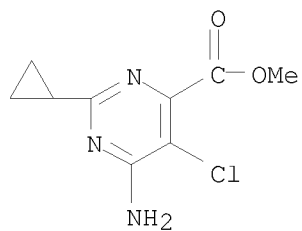
RN 952660-86-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 1H,3H-naphtho[1,8-cd]pyran-1,3-dione (CA INDEX NAME)

CM 1

CRN 858954-83-3

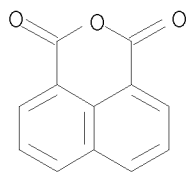
CMF C9 H10 Cl N3 O2



CM 2

CRN 81-84-5

CMF C12 H6 O3



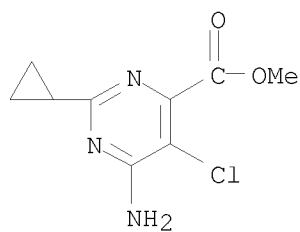
RN 952660-87-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-4-(formylamino)-N,N-dimethylbenzamide and ethyl 4,5-dihydro-5,5-diphenyl-3-isoxazolecarboxylate (CA INDEX NAME)

CM 1

CRN 858954-83-3

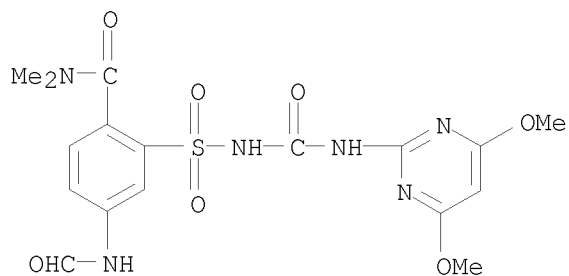
CMF C9 H10 Cl N3 O2



CM 2

CRN 173159-57-4

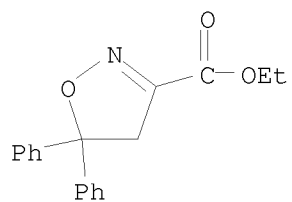
CMF C17 H20 N6 O7 S



CM 3

CRN 163520-33-0

CMF C18 H17 N O3



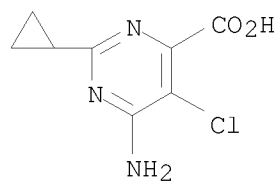
RN 952660-88-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with
ethyl 4,5-dihydro-5,5-diphenyl-3-isoxazolecarboxylate (CA INDEX NAME)

CM 1

CRN 858956-08-8

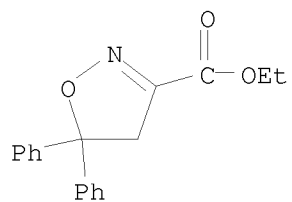
CMF C8 H8 Cl N3 O2



CM 2

CRN 163520-33-0

CMF C18 H17 N O3



L10 ANSWER 16 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2007:906765 CAPLUS
 DN 147:228744
 TI Pyrimidinecarboxylate derivatives and related compounds as cotton
 defoliants
 IN Bone, James; Rowe, Loston; Smith, J. Dan; Williams, Charles Steven
 PA E. I. du Pont de Nemours and Company, USA
 SO PCT Int. Appl., 50 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007092184	A2	20070816	WO 2007-US2267	20070126
	WO 2007092184	A3	20081231		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, ME, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
	AU 2007212702	A1	20070816	AU 2007-212702	20070126
	US 20090247404	A1	20091001	US 2008-158694	20081017
PRAI	US 2006-764539P	P	20060202		
	US 2006-765542P	P	20060206		
	WO 2007-US2267	W	20070126		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

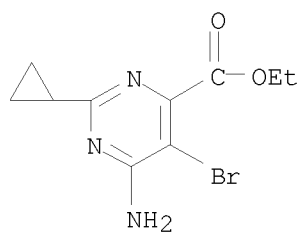
OS MARPAT 147:228744

AB Pyrimidinecarboxylate derivs. and related compds. I [R1 = (un)substituted (cyclo)alkyl, alkenyl, etc.; R2 = CO2H, alkoxycarbonyl, etc.; R3 = halo, (thio)ciano, nitro, alkyl, etc.; W = H, NH2, NO2 N3, etc.; X = N or (un)substituted CH] inhibit the regrowth of foliage of cotton conditioned for harvest or after harvest. I can be used as a mixture with known defoliants or desiccants.

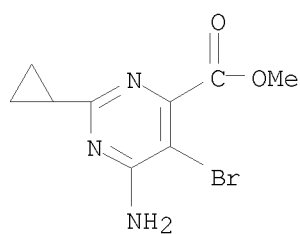
IT 858954-76-4 858954-77-5 858954-79-7,
 Ethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate
 858954-82-2 858954-83-3, Methyl
 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate
 858954-96-8 858955-48-3 858955-49-4
 858955-50-7 858955-51-8 858955-86-9
 858956-08-8 858956-12-4 858956-14-6
 858956-15-7 858956-43-1 858956-44-2
 858956-45-3 858956-46-4 945623-25-6
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (cotton defoliant)

RN 858954-76-4 CAPLUS

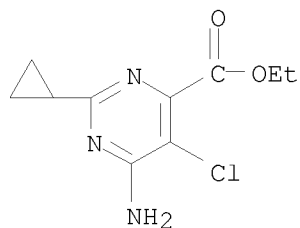
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester
 (CA INDEX NAME)



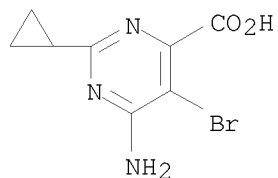
RN 858954-77-5 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester
 (CA INDEX NAME)



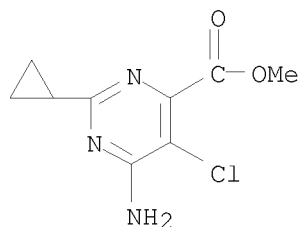
RN 858954-79-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester
 (CA INDEX NAME)



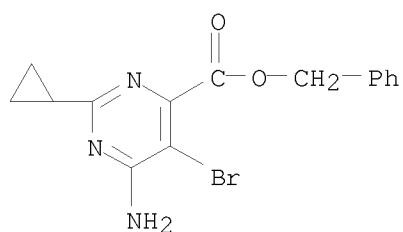
RN 858954-82-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX
 NAME)



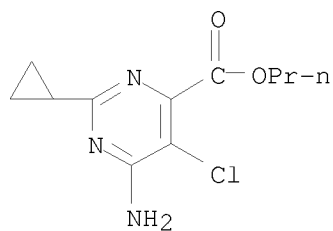
RN 858954-83-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester
 (CA INDEX NAME)



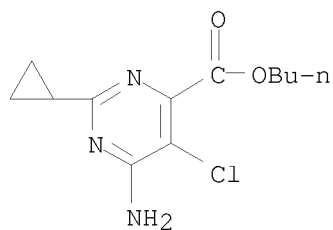
RN 858954-96-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



RN 858955-48-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester (CA INDEX NAME)

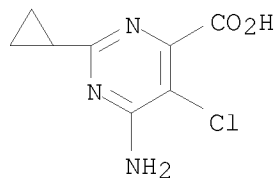


RN 858955-49-4 CAPLUS
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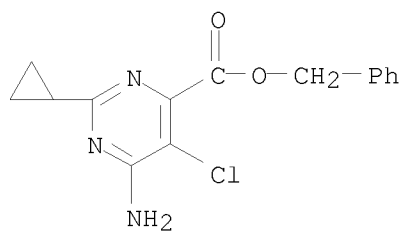
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, sodium salt
(1:1) (CA INDEX NAME)



● Na

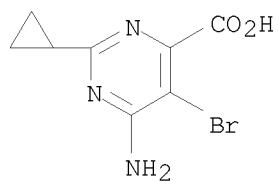
RN 858955-51-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl
ester (CA INDEX NAME)



RN 858955-86-9 CAPLUS

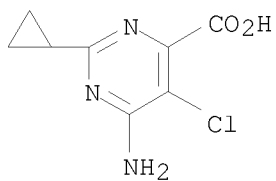
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, sodium salt
(1:1) (CA INDEX NAME)



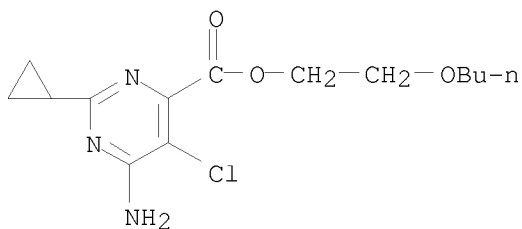
● Na

RN 858956-08-8 CAPLUS

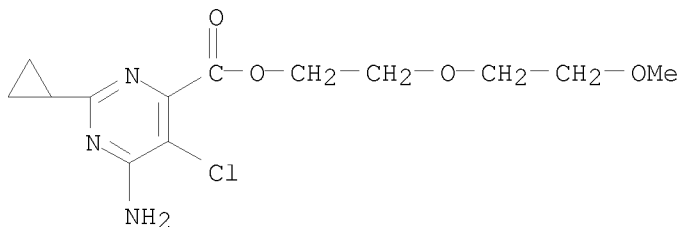
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX
NAME)



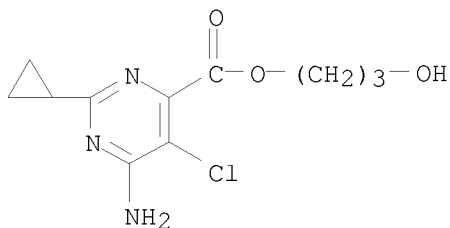
RN 858956-12-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 2-butoxyethyl ester (CA INDEX NAME)



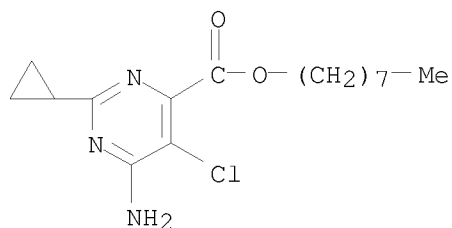
RN 858956-14-6 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 2-(2-methoxyethoxy)ethyl ester (CA INDEX NAME)



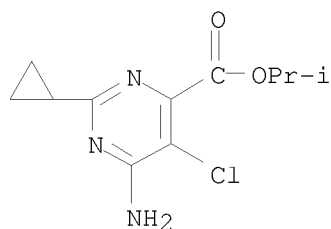
RN 858956-15-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 3-hydroxypropyl ester (CA INDEX NAME)



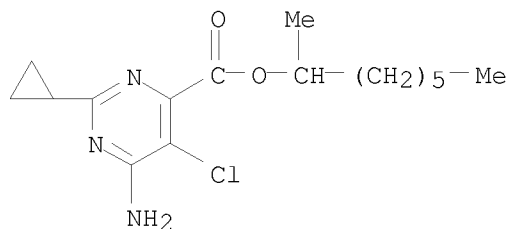
RN 858956-43-1 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester
 (CA INDEX NAME)



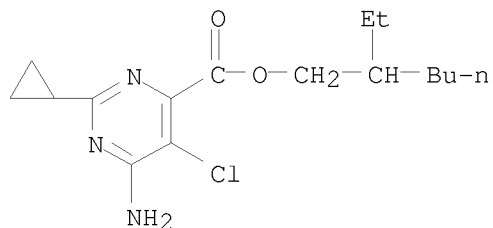
RN 858956-44-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 1-methylethyl ester (CA INDEX NAME)



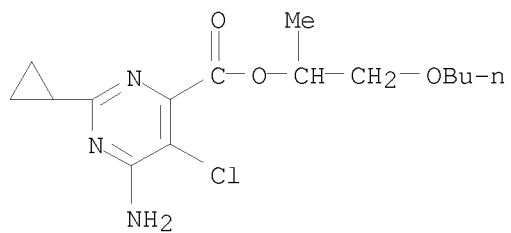
RN 858956-45-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 1-methylheptyl ester (CA INDEX NAME)



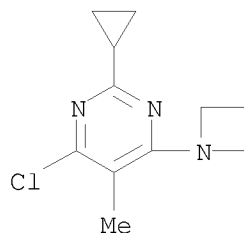
RN 858956-46-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl
 ester (CA INDEX NAME)



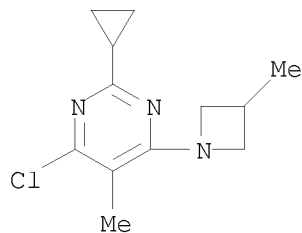
RN 945623-25-6 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 2-butoxy-1-methylethyl ester (CA INDEX NAME)



L10 ANSWER 17 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2007:526089 CAPLUS
 DN 147:45200
 TI Dual M3 antagonists-PDE4 inhibitors. Part 2: Synthesis and SAR of
 3-substituted azetidinyI derivatives
 AU Provins, Laurent; Christophe, Bernard; Danhaive, Pierre; Dulieu, Jacques;
 Gillard, Michel; Quere, Luc; Stebbins, Karin
 CS R&D, Chemin du Foriest, UCB Pharma S.A., Braine-L'Alleud, B-1420, Belg.
 SO Bioorganic & Medicinal Chemistry Letters (2007), 17(11), 3077-3080
 CODEN: BMCLE8; ISSN: 0960-894X
 PB Elsevier Ltd.
 DT Journal
 LA English
 OS CASREACT 147:45200
 AB Introduction of 3-substituted azetidinyI substituents onto the
 4,6-diaminopyrimidine scaffold allowed the improvement of PDE4 inhibiting
 activities. Preliminary in vivo activity in pulmonary inflammation models
 is reported.
 IT 617718-48-6P 617718-50-0P 617718-52-2P
 617718-53-3P 617718-54-4P 617718-55-5P
 939778-74-2P 939778-76-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (Dual M3 antagonists-PDE4 inhibitors. Part 2: Synthesis and SAR of
 3-substituted azetidinyI derivs.)
 RN 617718-48-6 CAPLUS
 CN Pyrimidine, 4-(1-azetidinyI)-6-chloro-2-cyclopropyl-5-methyl- (CA INDEX
 NAME)

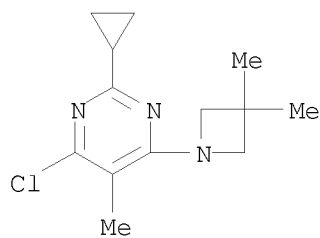


RN 617718-50-0 CAPLUS
 CN Pyrimidine, 4-chloro-2-cyclopropyl-5-methyl-6-(3-methyl-1-azetidinyI)-
 (CA INDEX NAME)



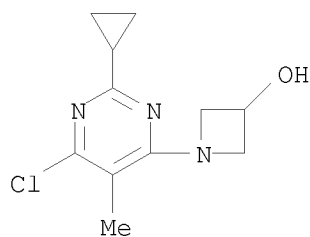
RN 617718-52-2 CAPLUS
 CN Pyrimidine, 4-chloro-2-cyclopropyl-6-(3,3-dimethyl-1-azetidinyI)-5-methyl-

(CA INDEX NAME)



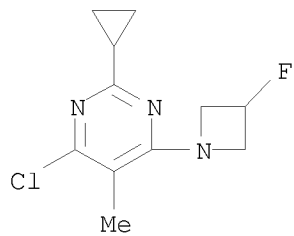
RN 617718-53-3 CAPLUS

CN 3-Azetidinol, 1-(6-chloro-2-cyclopropyl-5-methyl-4-pyrimidinyl)- (CA INDEX NAME)



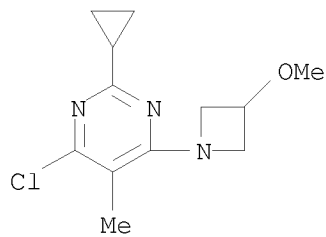
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CN Pyrimidine, 4-chloro-2-cyclopropyl-6-(3-fluoro-1-azetidiny)-5-methyl- (CA INDEX NAME)

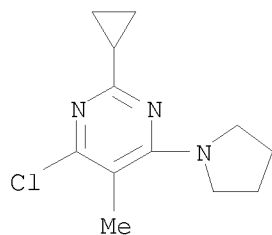


RN 617718-55-5 CAPLUS

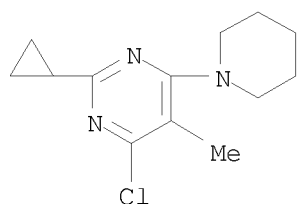
CN Pyrimidine, 4-chloro-2-cyclopropyl-6-(3-methoxy-1-azetidiny)-5-methyl- (CA INDEX NAME)



RN 939778-74-2 CAPLUS
 CN Pyrimidine, 4-chloro-2-cyclopropyl-5-methyl-6-(1-pyrrolidinyl)- (CA INDEX NAME)



RN 939778-76-4 CAPLUS
 CN Pyrimidine, 4-chloro-2-cyclopropyl-5-methyl-6-(1-piperidinyl)- (CA INDEX NAME)



OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 18 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2006:1226934 CAPLUS
 DN 146:7979
 TI Method for preparing substituted pyrimidines
 IN Annis, Gary David
 PA E. I. Du Pont De Nemours and Company, USA
 SO PCT Int. Appl., 26pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006124657	A1	20061123	WO 2006-US18522	20060512
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	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	AU 2006247581	A1	20061123	AU 2006-247581	20060512
	EP 1888536	A1	20080220	EP 2006-759727	20060512
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	JP 2008540655	T	20081120	JP 2008-512374	20060512
	ZA 2007007974	A	20081126	ZA 2007-7974	20060512
	US 20090054647	A1	20090226	US 2007-886653	20070917
	IN 2007DN08216	A	20071123	IN 2007-DN8216	20071024
	CN 101175730	A	20080507	CN 2006-80016942	20071116
	KR 2008016640	A	20080221	KR 2007-729280	20071214
PRAI	US 2005-681298P	P	20050516		
	WO 2006-US18522	W	20060512		

OS CASREACT 146:7979; MARPAT 146:7979

AB The invention relates to a method for preparing a ester I [R1 = cyclopropyl, 4-chlorophenyl or 4-bromophenyl; R2 = alkyl] comprising contacting acetal II with a persulfate oxidant in the presence of a strong sulfur- or phosphorus-containing mineral acid such as sulfuric acid and an oxidation resistant solvent. Thus, reacting 5-chloro-2-cyclopropyl-6-(diethoxymethyl)-4-pyrimidinamine with ammonium persulfate in the presence of sulfuric acid in acetonitrile afforded 55% Et 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate.

IT 858955-48-3 858955-49-4 858956-08-8
 858956-43-1 858956-44-2 858956-45-3
 858956-46-4 1042145-25-4 1042146-19-9
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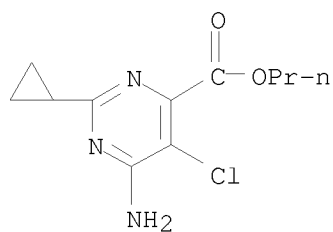
RL: PRPH (Prophetic)

(Method for preparing substituted pyrimidines)

RN 858955-48-3 CAPLUS

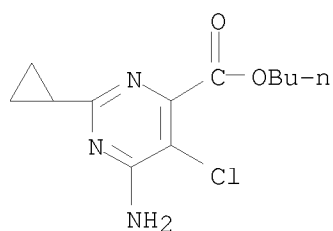
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester

(CA INDEX NAME)



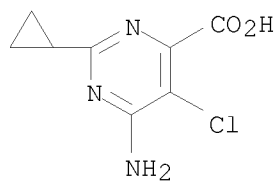
RN 858955-49-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester
(CA INDEX NAME)



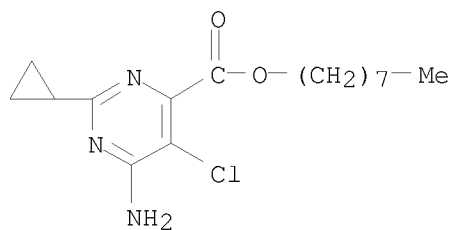
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CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



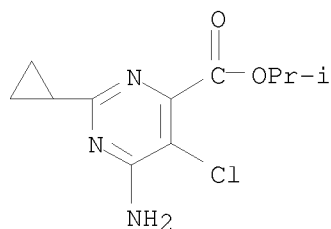
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CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester
(CA INDEX NAME)

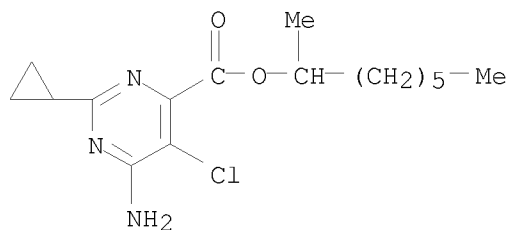


RN 858956-44-2 CAPLUS

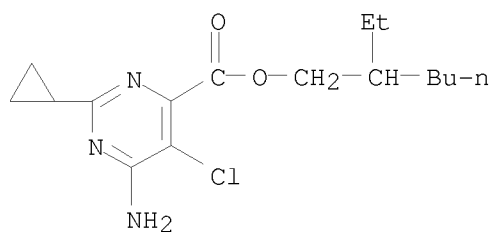
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
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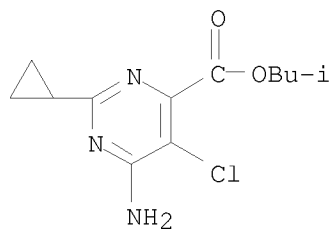
RN 858956-45-3 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
1-methylheptyl ester (CA INDEX NAME)



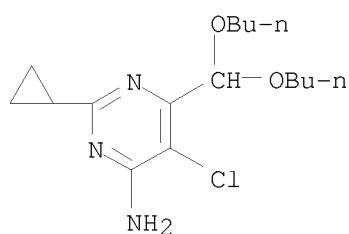
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CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl
ester (CA INDEX NAME)



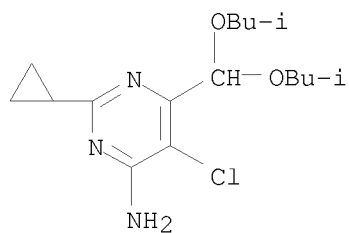
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CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
2-methylpropyl ester (CA INDEX NAME)



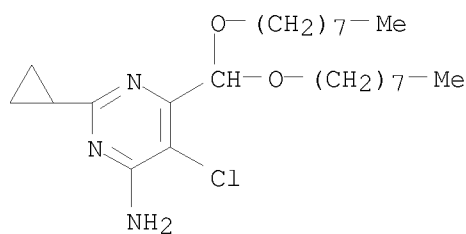
RN 1042146-19-9 CAPLUS
 CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-(dibutoxymethyl)- (CA INDEX NAME)



RN 1042146-20-2 CAPLUS
 CN 4-Pyrimidinamine, 6-[bis(2-methylpropoxy)methyl]-5-chloro-2-cyclopropyl- (CA INDEX NAME)

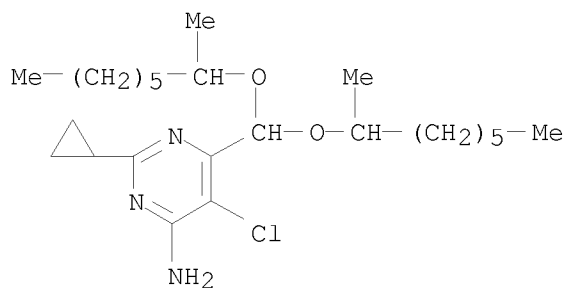


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 CN 4-Pyrimidinamine, 6-[bis(octyloxy)methyl]-5-chloro-2-cyclopropyl- (CA INDEX NAME)

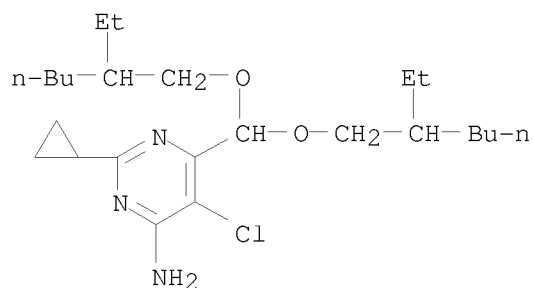


RN 1042146-22-4 CAPLUS

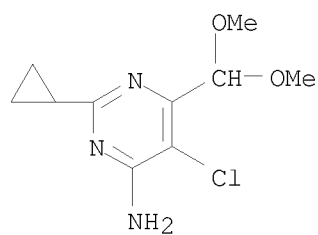
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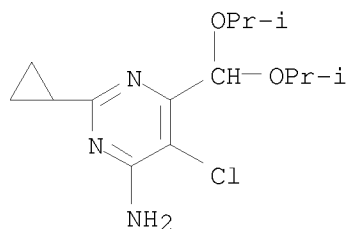
CN 4-Pyrimidinamine, 6-[bis[(2-ethylhexyl)oxy]methyl]-5-chloro-2-cyclopropyl-
(CA INDEX NAME)

RN 1042146-96-2 CAPLUS

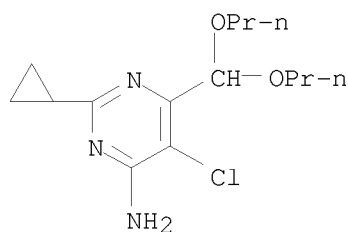
CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-(dimethoxymethyl)- (CA INDEX
NAME)

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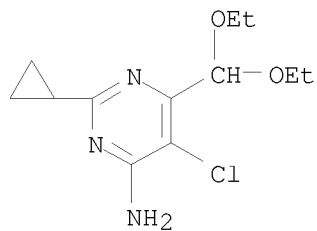
CN 4-Pyrimidinamine, 6-[bis(1-methylethoxy)methyl]-5-chloro-2-cyclopropyl-
(CA INDEX NAME)



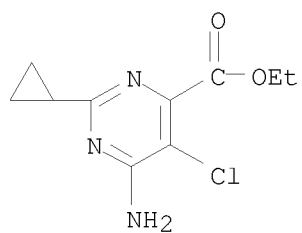
RN 1042146-98-4 CAPLUS
 CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-(dipropoxymethyl)- (CA INDEX NAME)



IT 915710-66-6P, 5-Chloro-2-cyclopropyl-6-(diethoxymethyl)-4-pyrimidinamine
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (method for preparing substituted pyrimidines)
 RN 915710-66-6 CAPLUS
 CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-(diethoxymethyl)- (CA INDEX NAME)

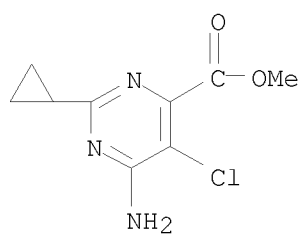


IT 858954-79-7P, Ethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate 858954-83-3P, Methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (method for preparing substituted pyrimidines)
 RN 858954-79-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



RN 858954-83-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester
(CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 19 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2006:1201993 CAPLUS
 DN 145:505468
 TI Process for preparation of optionally 2-substituted
 1,6-dihydro-6-oxo-4-pyrimidinecarboxylic acids from oxalacetate salts and
 carboximidamides
 IN Shapiro, Rafael
 PA E. I. Du Pont de Nemours and Company, USA
 SO PCT Int. Appl., 36pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006121648	A2	20061116	WO 2006-US16340	20060428
	WO 2006121648	A3	20061228		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	AU 2006246374	A1	20061116	AU 2006-246374	20060428
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	JP 2008540414	T	20081120	JP 2008-510079	20060428
	ZA 2007007975	A	20081126	ZA 2007-7975	20060428
	NZ 561399	A	20091127	NZ 2006-561399	20060428
	US 20090043098	A1	20090212	US 2007-886605	20070917
	IN 2007DN08215	A	20071123	IN 2007-DN8215	20071024
	MX 2007013424	A	20080116	MX 2007-13424	20071026
	KR 2008006576	A	20080116	KR 2007-725602	20071105
	CN 101171237	A	20080430	CN 2006-80015454	20071106
PRAI	US 2005-678264P	P	20050506		
	WO 2006-US16340	W	20060428		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 145:505468; MARPAT 145:505468

AB Title compds. [I; R1 = H, (substituted) carbon moiety], were prepared by contacting R2O2C(MO)C:CHCO2R3 (M = alkali metal; R2, R3 = alkyl) with a base and water to provide MO2C(MO)C:CHCO2R3 (variables as above) in solution and contacting the latter with R1C(:NH)NH2 (R1 as above) in the presence of a second base to maintain pH 9-12, followed by addition of acid. Thus, a mixture of H2O/denatured EtOH was treated with di-Et oxalacetate Na salt over 10 min; aqueous NaOH was then added over 1 h followed by stirring for 30 min. Cyclopropanecarboximidamide hydrochloride (preparation given) in H2O and then aqueous NaOH were added over 1 h to pH 10.5-11.5. The solution was heated to 60° over 1 h followed by cooling to 45-50° and treatment

with aqueous HCl to give 85% 2-cyclopropyl-1,6-dihydro-6-oxo-4-pyrimidinecarboxylic acid. The latter was converted to Me 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate.

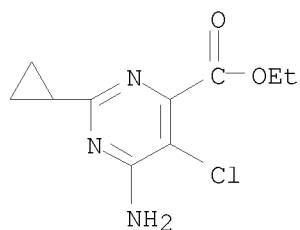
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 858956-43-1 858956-44-2 858956-45-3
 858956-46-4 859032-08-9 1042145-25-4
 1042145-65-2 1042145-67-4 1042145-85-6
 1042145-93-6

RL: PRPH (Prophetic)

(Process for preparation of optionally 2-substituted
 1,6-dihydro-6-oxo-4-pyrimidinecarboxylic acids from oxalacetate salts
 and carboximidamides)

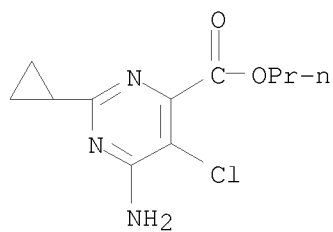
RN 858954-79-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester
 (CA INDEX NAME)



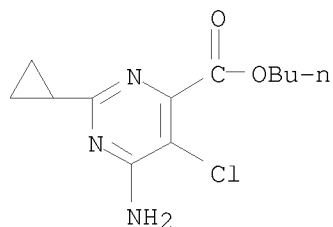
RN 858955-48-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester
 (CA INDEX NAME)



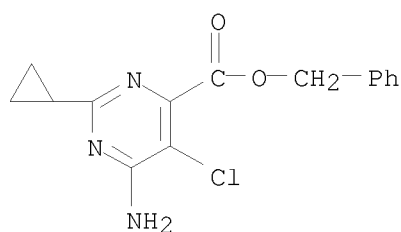
RN 858955-49-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester
 (CA INDEX NAME)



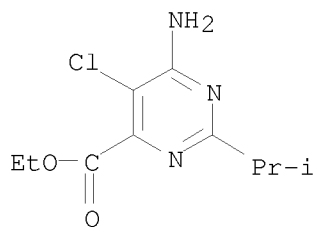
RN 858955-51-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



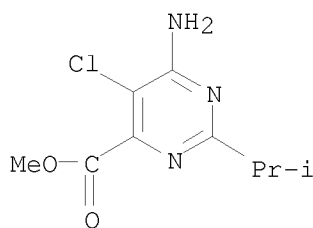
RN 858955-81-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, ethyl ester (CA INDEX NAME)



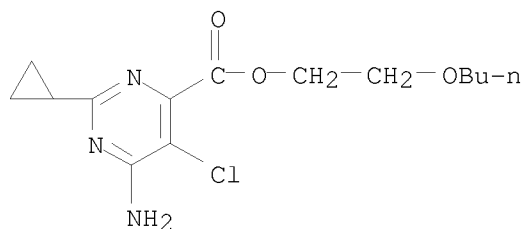
RN 858955-83-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, methyl ester (CA INDEX NAME)

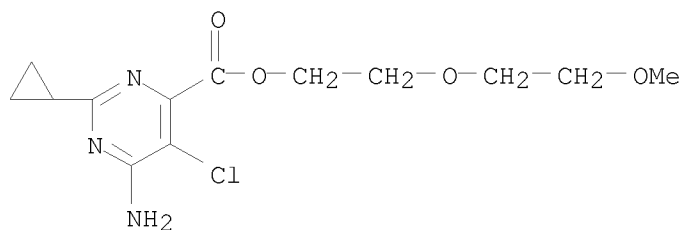


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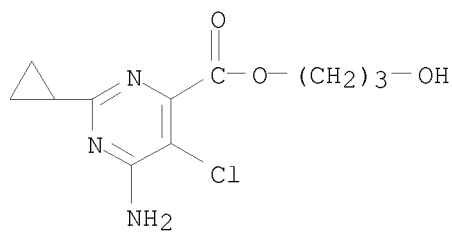
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
2-butoxyethyl ester (CA INDEX NAME)



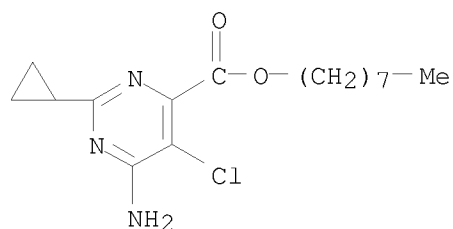
RN 858956-14-6 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
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RN 858956-15-7 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
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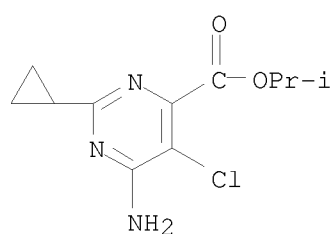


RN 858956-43-1 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester
(CA INDEX NAME)



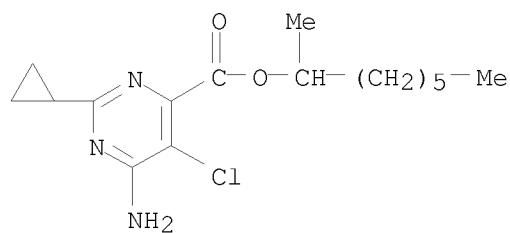
RN 858956-44-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
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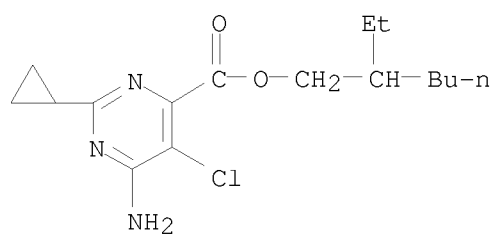
RN 858956-45-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
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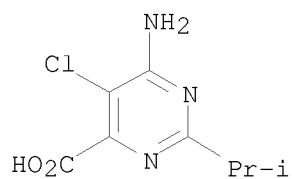
RN 858956-46-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl
ester (CA INDEX NAME)



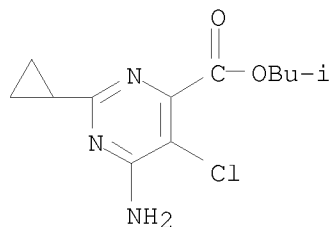
RN 859032-08-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)- (CA INDEX NAME)



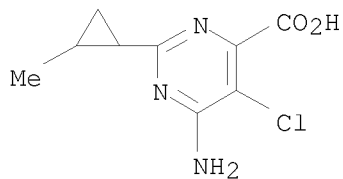
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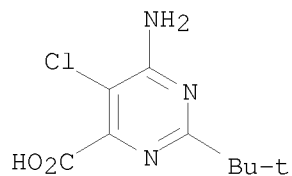
RN 1042145-65-2 CAPLUS

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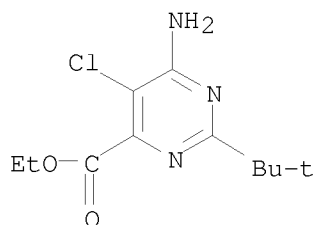
RN 1042145-67-4 CAPLUS

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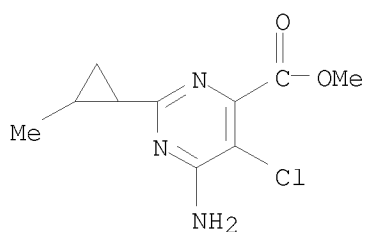
RN 1042145-85-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,1-dimethylethyl)-, ethyl ester (CA INDEX NAME)



RN 1042145-93-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methylcyclopropyl)-, methyl ester (CA INDEX NAME)

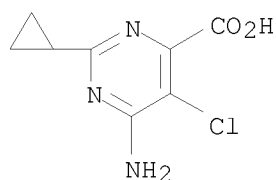


IT 858956-08-8P, 6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn of optionally substituted dihydrooxypyrimidinecarboxylic acids from oxalacetate salts and carboximidamides)

RN 858956-08-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)

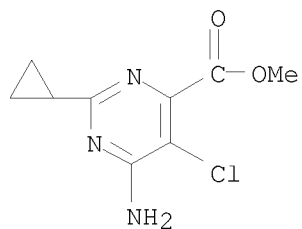


IT 858954-83-3P, Methyl 6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn of optionally substituted dihydrooxypyrimidinecarboxylic acids from oxalacetate salts and carboximidamides)

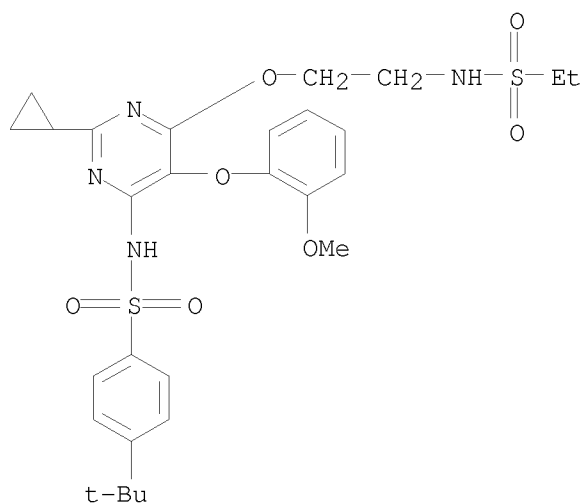
RN 858954-83-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



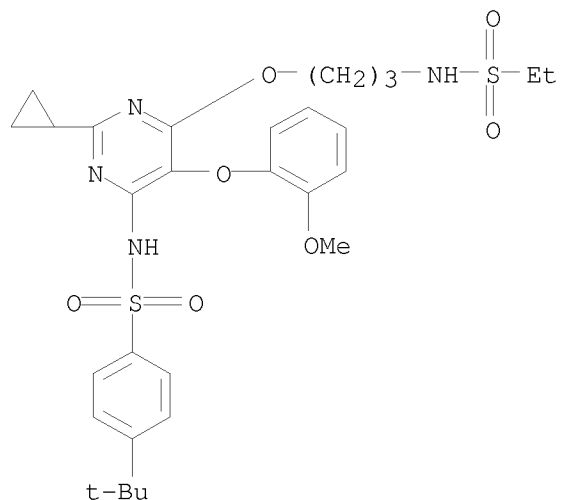
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RE.CNT	1	THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 20 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2006:535325 CAPLUS
 DN 145:240924
 TI Study on the quantitative structure-activity relationship of nonpeptide endothelin receptor antagonist: Bis-sulfonamides
 AU Li, Gang; Zhou, Lu; Hao, LiFen
 CS College of Chemical Engineering, Sichuan University, Sichuan, 610065, Peop. Rep. China
 SO Jisuanji Yu Yingyong Huaxue (2005), 32(9), 779-783
 CODEN: JYYHE6; ISSN: 1001-4160
 PB Jisuanji Yu Yingyong Huaxue Bianjibu
 DT Journal
 LA Chinese
 AB The study investigated the QSAR model between the structure of Bis-sulfonamides and their activity, and to provide reference for the synthesise of Bis-sulfonamides as new endothelin receptor antagonist. The structure parameters had been computed, and analyze the quant. structure activity relationship (QSAR) of 34 Bis-sulfonamide compds. by BP neural network. It has been obtained a QSAR model which has splendid forecast capability. There are has direct charge migration between the ETs receptor antagonist and Bis-sulfonamides, the electrostatic and LogP are mainly factor that effect the activity of Bis-sulfonamides.
 IT 329924-54-1 329925-16-8 329925-17-9
 906463-33-0 906463-37-4 906463-38-5
 906463-41-0 906463-42-1 906463-44-3
 906463-49-8 906463-55-6 906463-57-8
 906463-58-9
 RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (quant. structure-activity relationship of nonpeptide endothelin receptor antagonist: Bis-sulfonamides)
 RN 329924-54-1 CAPLUS
 CN Benzenesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



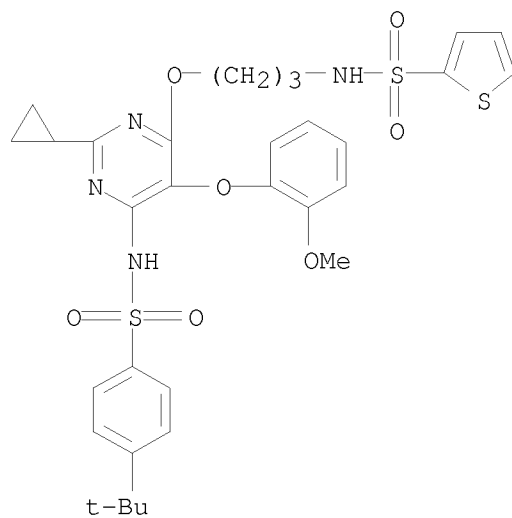
RN 329925-16-8 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-[3-[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



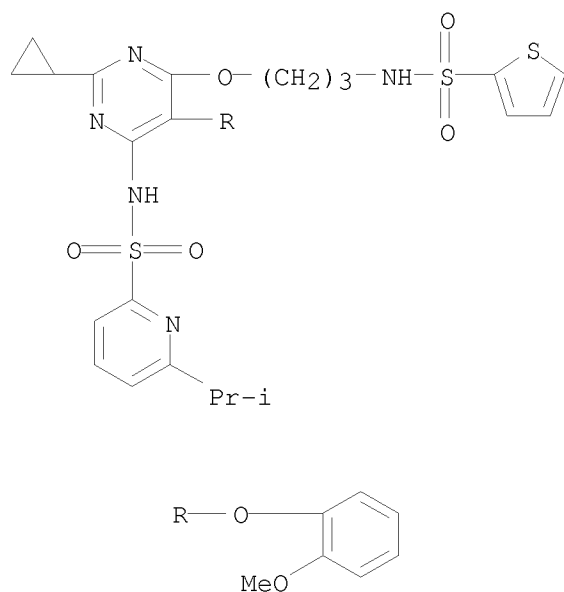
RN 329925-17-9 CAPLUS

CN 2-Thiophenesulfonamide, N-[3-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]propyl]- (CA INDEX NAME)



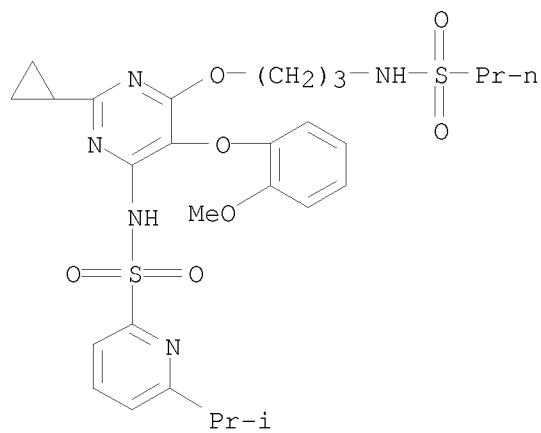
RN 906463-33-0 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(2-thienylsulfonyl)amino]propoxy]-4-pyrimidinyl]-6-(1-methylethyl)- (CA INDEX NAME)



RN 906463-37-4 CAPLUS

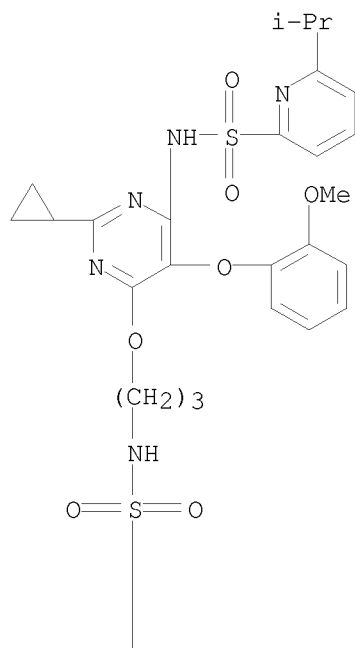
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-
[(propylsulfonyl)amino]propoxy]-4-pyrimidinyl]-6-(1-methylethyl)- (CA
INDEX NAME)



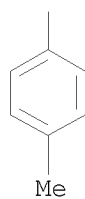
RN 906463-38-5 CAPLUS

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methylphenyl)sulfonyl]amino]propoxy]-4-pyrimidinyl]-6-(1-methylethyl)-
(CA INDEX NAME)

PAGE 1-A

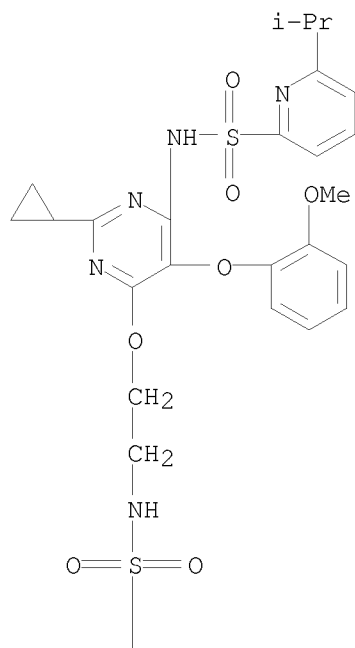


PAGE 2-A

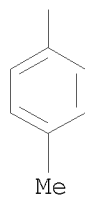


RN 906463-41-0 CAPLUS
 CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[[4-methylphenyl)sulfonyl]amino]ethoxy]-4-pyrimidinyl]-6-(1-methylethyl)- (CA INDEX NAME)

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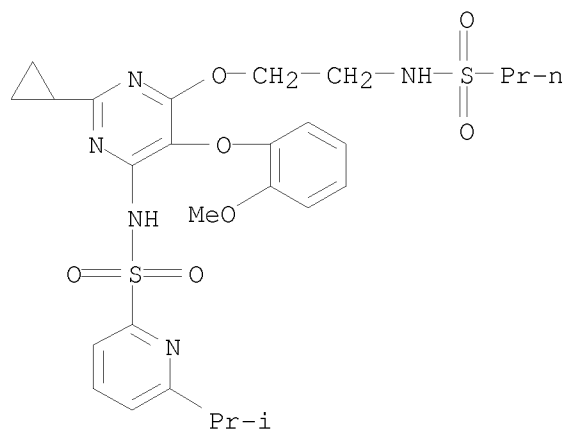


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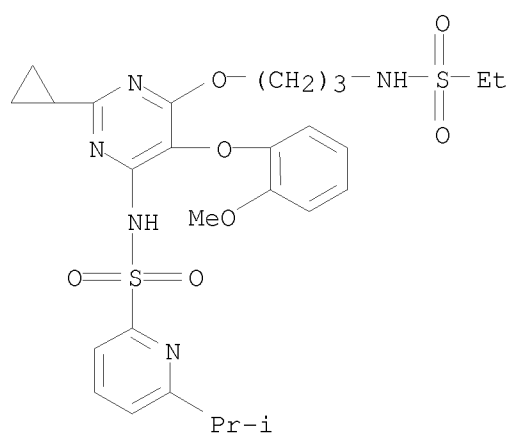
RN 906463-42-1 CAPLUS
 CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-
 [(propylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-6-(1-methylethyl)- (CA
 INDEX NAME)

10/581,897 (amended)



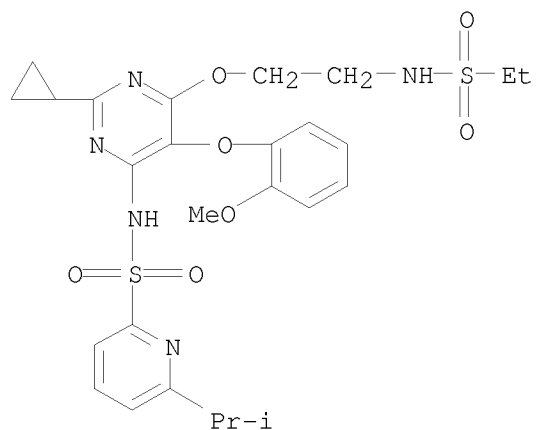
RN 906463-44-3 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[3-
[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-6-(1-
methylethyl)- (CA INDEX NAME)



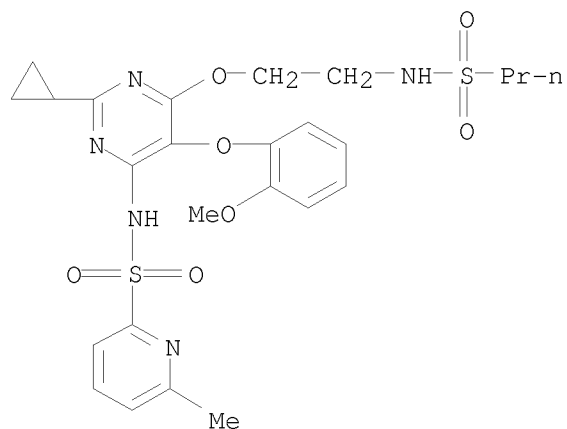
RN 906463-49-8 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-
5-(2-methoxyphenoxy)-4-pyrimidinyl]-6-(1-methylethyl)- (CA INDEX NAME)



RN 906463-55-6 CAPLUS

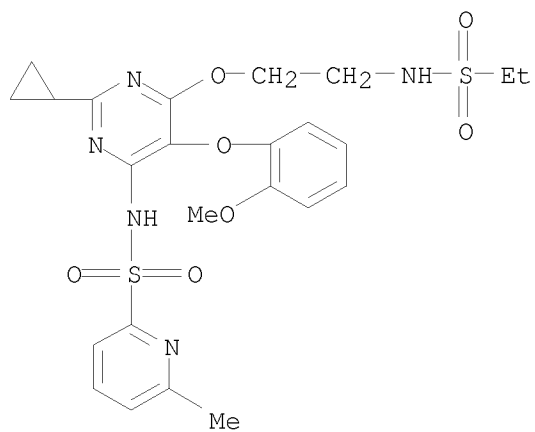
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(propylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-6-methyl- (CA INDEX NAME)



RN 906463-57-8 CAPLUS

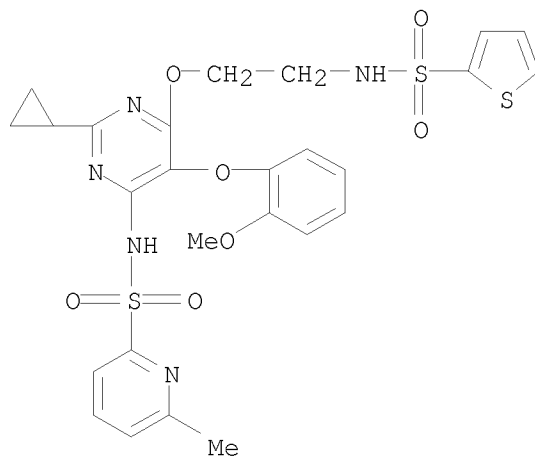
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-6-methyl- (CA INDEX NAME)

10/581,897 (amended)

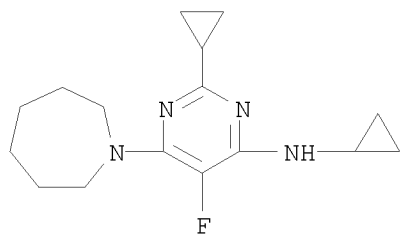


RN 906463-58-9 CAPLUS

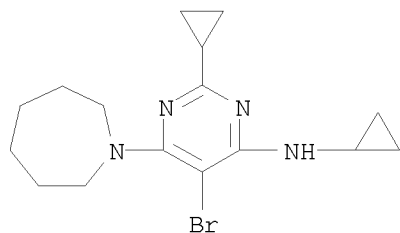
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(2-thienylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-6-methyl- (CA INDEX NAME)



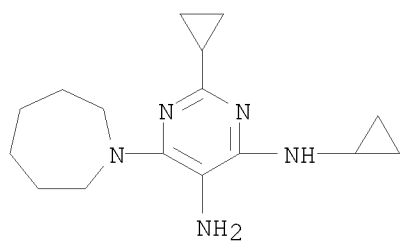
L10 ANSWER 21 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2006:188875 CAPLUS
 DN 144:432767
 TI First dual M3 antagonists-PDE4 inhibitors: Synthesis and SAR of
 4,6-diaminopyrimidine derivatives
 AU Provins, Laurent; Christophe, Bernard; Danhaive, Pierre; Dulieu, Jacques;
 Durieu, Veronique; Gillard, Michel; Lebon, Florence; Lengele, Sebastien;
 Quere, Luc; van Keulen, BerendJan
 CS Global Chemistry, UCB, R&D, Chemin du Foriest, Braine-L'Alleud, B-1420,
 Belg.
 SO Bioorganic & Medicinal Chemistry Letters (2006), 16(7), 1834-1839
 CODEN: BMCLE8; ISSN: 0960-894X
 PB Elsevier B.V.
 DT Journal
 LA English
 OS CASREACT 144:432767
 AB Structure-activity studies around 4,6-diaminopyrimidine derivs. allowed
 the discovery of potent dual M3 antagonists and PDE4 inhibitors. Various
 chemical modulations around that scaffold led to the discovery of
 ucb-101333-3 (I) which is characterized by the most interesting profile on
 both targets.
 IT 617717-02-9P 617717-04-1P 617717-06-3P
 617717-68-7P 617717-72-3P 617717-87-0P
 617717-89-2P 617717-96-1P 617717-98-3P
 617718-03-3P 617718-93-1P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation)
 (preparation of 4,6-diaminopyrimidine derivs. as dual M3 antagonists and
 PDE4 inhibitors)
 RN 617717-02-9 CAPLUS
 CN 4-Pyrimidinamine, N,2-dicyclopropyl-5-fluoro-6-(hexahydro-1H-azepin-1-yl)-
 (CA INDEX NAME)



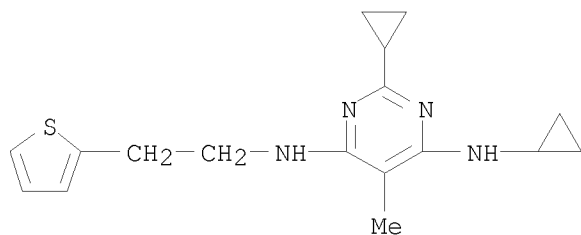
RN 617717-04-1 CAPLUS
 CN 4-Pyrimidinamine, 5-bromo-N,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-
 (CA INDEX NAME)



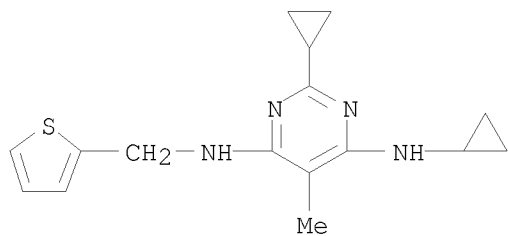
RN 617717-06-3 CAPLUS
 CN 4,5-Pyrimidinediamine, N4,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-
 (CA INDEX NAME)



RN 617717-68-7 CAPLUS
 CN 4,6-Pyrimidinediamine, N4,2-dicyclopropyl-5-methyl-N6-[2-(2-thienyl)ethyl]-
 (CA INDEX NAME)

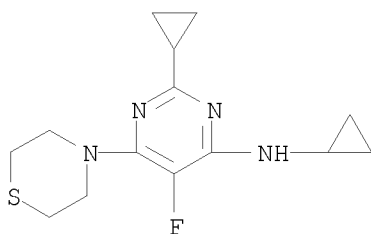


RN 617717-72-3 CAPLUS
 CN 4,6-Pyrimidinediamine, N4,2-dicyclopropyl-5-methyl-N6-(2-thienylmethyl)-
 (CA INDEX NAME)



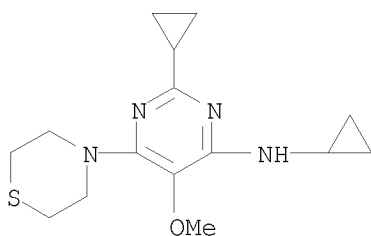
RN 617717-87-0 CAPLUS

CN 4-Pyrimidinamine, N,2-dicyclopropyl-5-fluoro-6-(4-thiomorpholinyl)- (CA INDEX NAME)



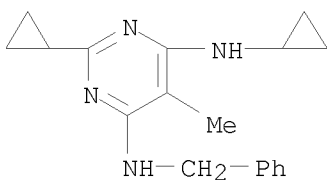
RN 617717-89-2 CAPLUS

CN 4-Pyrimidinamine, N,2-dicyclopropyl-5-methoxy-6-(4-thiomorpholinyl)- (CA INDEX NAME)



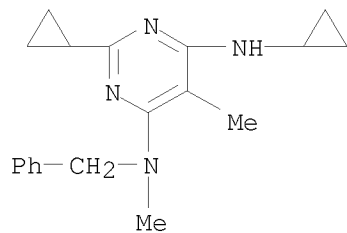
RN 617717-96-1 CAPLUS

CN 4,6-Pyrimidinediamine, N4,2-dicyclopropyl-5-methyl-N6-(phenylmethyl)- (CA INDEX NAME)

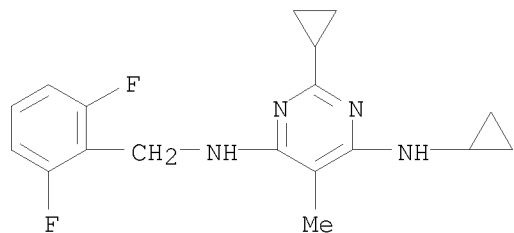


RN 617717-98-3 CAPLUS

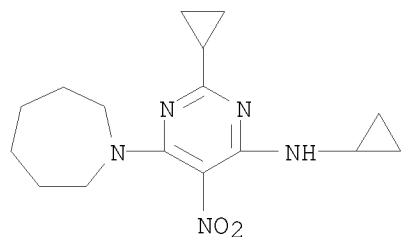
CN 4,6-Pyrimidinediamine, N6,2-dicyclopropyl-N4,5-dimethyl-N4-(phenylmethyl)- (CA INDEX NAME)



RN 617718-03-3 CAPLUS
 CN 4,6-Pyrimidinediamine, N4,2-dicyclopropyl-N6-[(2,6-difluorophenyl)methyl]-5-methyl- (CA INDEX NAME)



RN 617718-93-1 CAPLUS
 CN 4-Pyrimidinamine, N,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-5-nitro- (CA INDEX NAME)



OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)
 RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 22 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2005:1242217 CAPLUS
 DN 144:7084
 TI Preparation of pyrimidine amino acid derivatives as antagonists of the vitronectin receptor
 IN Lefrancois, Jean Michel; Heckmann, Bertrand
 PA Proskelia Sas, Fr.
 SO Fr. Demande, 123 pp.
 CODEN: FRXXBL

DT Patent
 LA French
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2870541	A1	20051125	FR 2004-5407	20040518
	FR 2870541	B1	20060714		
	AU 2005254751	A1	20051229	AU 2005-254751	20050513
	CA 2567003	A1	20051229	CA 2005-2567003	20050513
	WO 2005123734	A1	20051229	WO 2005-FR1209	20050513
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1747222	A1	20070131	EP 2005-771271	20050513
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	JP 2007538056	T	20071227	JP 2007-517331	20050513
	US 20080058348	A1	20080306	US 2006-596597	20061115
	KR 2007041444	A	20070418	KR 2006-724312	20061120
PRAI	FR 2004-5407	A	20040518		
	WO 2005-FR1209	W	20050513		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 144:7084

AB The invention relates to pyrimidine derivs. I [R is -X-alk-Het (X is O, S, NH or alkylimino, alk is alkyl, and Het is a ring which may contain O, S or N), 1-azetidiny, 1-pyrrolidinyl or piperidino, which may be substituted; R1 is H, aryl, arylalkyl or an amino group; R2 is H, halo, nitro, alkyl, an amino group, etc.; R3 is H, carbalkoxy, a sulfonyl group, a ring system, etc.; R4 is OH, alkoxy, aryloxy, etc.] and their stereoisomeric forms and pharmaceutically-acceptable salts and includes their preparation and use in pharmaceutical compns. as antagonists of the vitronectin receptor. Syntheses of compds. are described in 65 examples, including that of 2-[(benzyloxycarbonyl)amino]-3-[5-ethyl-6-[3-(5,6,7,8-tetrahydro[1,8]naphthyridin-2-yl)propylamino]pyrimidin-4-ylamino]propionic acid bis(trifluoroacetate). Compds. of the invention showed K/VnR IC50 in the range 2-10,000 nM for binding to $\alpha\text{v}\beta\text{3}$ vitronectin receptor.

IT 870088-44-1P

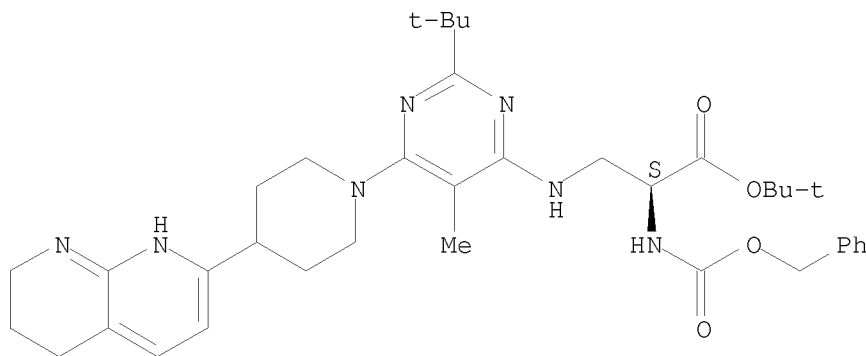
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of pyrimidine amino acid derivs. as antagonists of the
 vitronectin receptor)

RN 870088-44-1 CAPLUS

CN L-Alanine, 3-[[2-(1,1-dimethylethyl)-5-methyl-6-[4-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)-1-piperidinyl]-4-pyrimidinyl]amino]-N-[(phenylmethoxy)carbonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 870088-45-2P 870088-46-3P

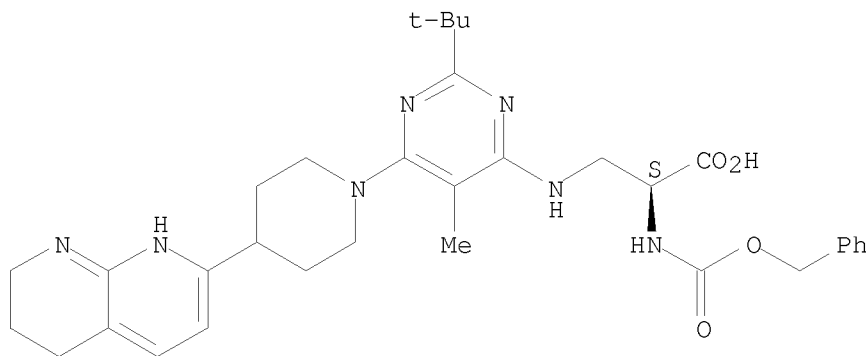
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(preparation of pyrimidine amino acid derivs. as antagonists of the
 vitronectin receptor)

RN 870088-45-2 CAPLUS

CN L-Alanine, 3-[[2-(1,1-dimethylethyl)-5-methyl-6-[4-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)-1-piperidinyl]-4-pyrimidinyl]amino]-N-[(phenylmethoxy)carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 870088-46-3 CAPLUS

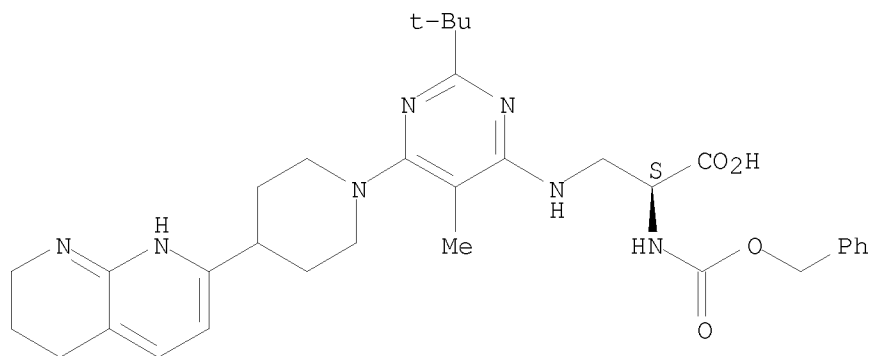
CN L-Alanine, 3-[[2-(1,1-dimethylethyl)-5-methyl-6-[4-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)-1-piperidinyl]-4-pyrimidinyl]amino]-N-[(phenylmethoxy)carbonyl]-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 870088-45-2

CMF C33 H43 N7 O4

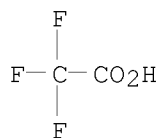
Absolute stereochemistry.



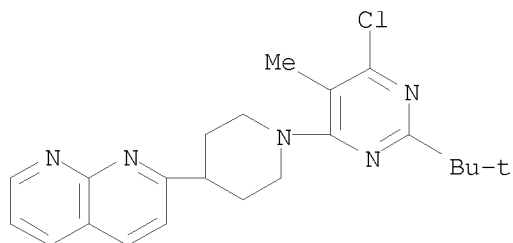
CM 2

CRN 76-05-1

CMF C2 H F3 O2



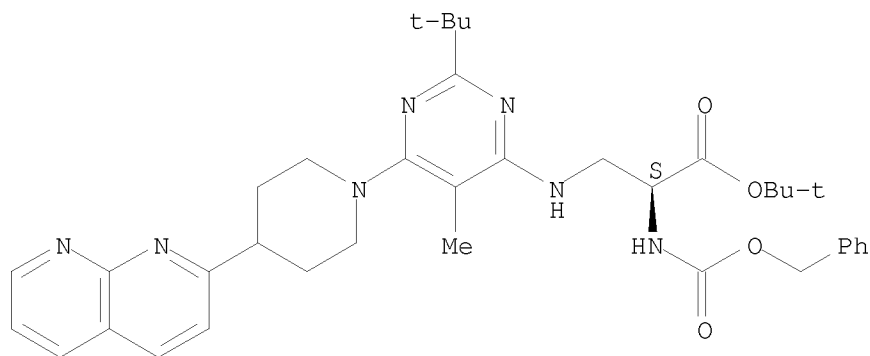
IT 870089-68-2P 870089-69-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of pyrimidine amino acid derivs. as antagonists of the
 vitronectin receptor)
 RN 870089-68-2 CAPLUS
 CN 1,8-Naphthyridine, 2-[1-[6-chloro-2-(1,1-dimethylethyl)-5-methyl-4-
 pyrimidinyl]-4-piperidinyl]- (CA INDEX NAME)



10/581,897 (amended)

RN 870089-69-3 CAPLUS
CN L-Alanine, 3-[[2-(1,1-dimethylethyl)-5-methyl-6-[4-(1,8-naphthyridin-2-yl)-1-piperidinyl]-4-pyrimidinyl]amino]-N-[(phenylmethoxy)carbonyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

Absolute stereochemistry.



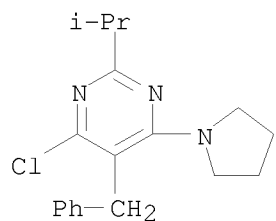
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 23 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2005:962042 CAPLUS
 DN 143:266941
 TI Preparation of pyrimidine derivatives as agricultural and horticultural fungicides
 IN Ito, Masahito; Hatazawa, Mamoru; Araki, Yasuo; Inuta, Tetsuya
 PA Bayer Cropscience A.-G., Germany
 SO PCT Int. Appl., 197 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

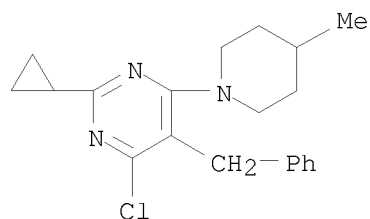
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005079798	A1	20050901	WO 2005-EP1383	20050211
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005232081	A	20050902	JP 2004-43405	20040219
AU 2005215109	A1	20050901	AU 2005-215109	20050211
CA 2556480	A1	20050901	CA 2005-2556480	20050211
EP 1718305	A1	20061108	EP 2005-741674	20050211
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1942188	A	20070404	CN 2005-80011698	20050211
BR 2005007915	A	20070710	BR 2005-7915	20050211
JP 2007524689	T	20070830	JP 2006-553501	20050211
IN 2006DN04518	A	20070824	IN 2006-DN4518	20060804
ZA 2006006775	A	20080430	ZA 2006-6775	20060815
MX 2006009309	A	20061009	MX 2006-9309	20060816
KR 2007003935	A	20070105	KR 2006-718850	20060914
US 20070167421	A1	20070719	US 2006-589113	20061114
PRAI JP 2004-43405	A	20040219		
WO 2005-EP1383	W	20050211		
OS CASREACT 143:266941; MARPAT 143:266941				
AB The title compds. I [NR1R2 = (un)substituted 3-10 membered heterocyclic group which may contain further 1-3 heteroatoms besides the nitrogen atom to which R1 and R2 are bonded; n = 0-2; R3 = H, halo, CN, etc.; R4 = H, halo, CN, etc.; R5, R6 = H, halo, alkyl, etc.; Q = (un)substituted aryl, 5-6 membered heterocyclyl that contains one heteroatom], useful as agrohorticultural fungicides, were prepared Thus, reacting 5-benzyl-4,6-dichloropyrimidine with pyrrolidine in the presence of Et3N in THF afforded II. The compds. I were tested against various fungi (specific data were given for representative compds. I).				
IT 1044446-23-2	1044450-92-1	1044452-59-6		
1044455-10-8	1044457-93-3	1044460-67-4		
1044461-70-2				
RL: PRPH (Prophetic)				
(Preparation of pyrimidine derivatives as agricultural and				

horticultural fungicides)

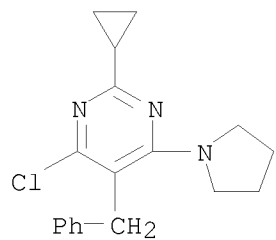
RN 1044446-23-2 CAPLUS

CN Pyrimidine, 4-chloro-2-(1-methylethyl)-5-(phenylmethyl)-6-(1-pyrrolidinyl)-
(CA INDEX NAME)

RN 1044450-92-1 CAPLUS

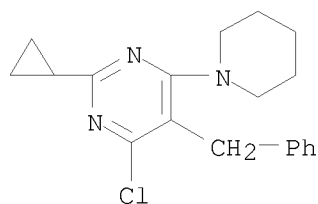
CN Pyrimidine, 4-chloro-2-cyclopropyl-6-(4-methyl-1-piperidinyl)-5-(phenylmethyl)-
(CA INDEX NAME)

RN 1044452-59-6 CAPLUS

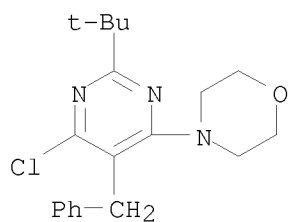
CN Pyrimidine, 4-chloro-2-cyclopropyl-5-(phenylmethyl)-6-(1-pyrrolidinyl)-
(CA INDEX NAME)

RN 1044455-10-8 CAPLUS

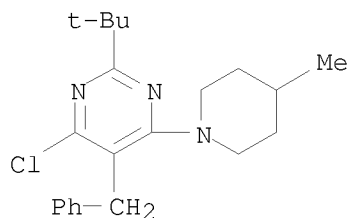
CN Pyrimidine, 4-chloro-2-cyclopropyl-5-(phenylmethyl)-6-(1-piperidinyl)-
(CA INDEX NAME)



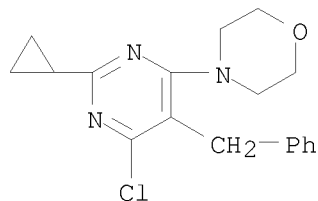
RN 1044457-93-3 CAPLUS
 CN Morpholine, 4-[6-chloro-2-(1,1-dimethylethyl)-5-(phenylmethyl)-4-pyrimidinyl]- (CA INDEX NAME)



RN 1044460-67-4 CAPLUS
 CN Pyrimidine, 4-chloro-2-(1,1-dimethylethyl)-6-(4-methyl-1-piperidinyl)-5-(phenylmethyl)- (CA INDEX NAME)



RN 1044461-70-2 CAPLUS
 CN Morpholine, 4-[6-chloro-2-cyclopropyl-5-(phenylmethyl)-4-pyrimidinyl]- (CA INDEX NAME)



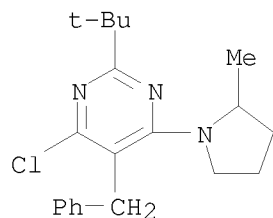
IT 863765-42-8P 863765-77-9P 863766-04-5P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES

(Uses)

(preparation of pyrimidine derivs. as agricultural and horticultural fungicides)

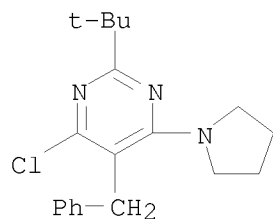
RN 863765-42-8 CAPLUS

CN Pyrimidine, 4-chloro-2-(1,1-dimethylethyl)-6-(2-methyl-1-pyrrolidinyl)-5-(phenylmethyl)- (CA INDEX NAME)



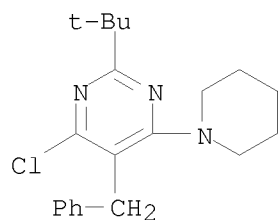
RN 863765-77-9 CAPLUS

CN Pyrimidine, 4-chloro-2-(1,1-dimethylethyl)-5-(phenylmethyl)-6-(1-pyrrolidinyl)- (CA INDEX NAME)



RN 863766-04-5 CAPLUS

CN Pyrimidine, 4-chloro-2-(1,1-dimethylethyl)-5-(phenylmethyl)-6-(1-piperidinyl)- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
 RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 24 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2005:612265 CAPLUS
 DN 143:133387
 TI Preparation of herbicidal pyrimidines
 IN Clark, David Alan; Finkelstein, Bruce Lawrence; Armel, Gregory Russell;
 Wittenbach, Vernon Arie
 PA E. I. Dupont de Nemours and Company, USA
 SO PCT Int. Appl., 151 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

Applicant's

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005063721	A1	20050714	WO 2004-US42302	20041216
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004309325	A1	20050714	AU 2004-309325	20041216
CA 2548058	A1	20050714	CA 2004-2548058	20041216
EP 1694651	A1	20060830	EP 2004-814481	20041216
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS				
CN 1894220	A	20070110	CN 2004-80037819	20041216
BR 2004017279	A	20070313	BR 2004-17279	20041216
JP 2007534649	T	20071129	JP 2006-545441	20041216
ZA 2006004258	A	20080730	ZA 2006-4258	20041216
NZ 547251	A	20090925	NZ 2004-547251	20041216
IN 2006DN03045	A	20070803	IN 2006-DN3045	20060526
US 20070197391	A1	20070823	US 2006-581897	20060605
KR 2006114345	A	20061106	KR 2006-712063	20060616
MX 2006007033	A	20060831	MX 2006-7033	20060619
PRAI US 2003-531300P	P	20031219		
US 2004-598397P	P	20040803		
WO 2004-US42302	W	20041216		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 143:133387; MARPAT 143:133387

AB The title compds. I [R1 = (un)substituted cyclopropyl, iso-Pr, or Ph; R2 = ((O)jC(R15)(R16))kR; R = CO₂H or a herbicidally effective derivative of CO₂H; R3 = halo, CN, NO₂, OR₂₀, SR₂₁ or N(R₂₂)R₂₃; R4 = N(R₂₄)R₂₅ or NO₂; j = 0-1; k = 0-1; provided that when k = 0, then j = 0; R15, R16 = H, halo, alkyl, etc.; R20, R21 = H, alkyl, haloalkyl; R22, R23 = H, alkyl; R24 = H, alkyl, alkenyl, etc.; R25 = H, alkyl, C(O)R₃₃; R33 = H, alkyl, haloalkyl, etc.; or R24 and R25 are taken together as a radical selected from (CH₂)₄, (CH₂)₅, etc.] which are useful for controlling undesired vegetation, were prepared E.g., a multi-step synthesis of Et 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate (II) and Me 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate (III), starting from

Et 4,4-diethoxy-3-oxobutanoate and cyclopropanecarboximidamide monohydrochloride, was given. The compound II showed complete control against Pigweed at 500g ai/ha in postemergence test. Also disclosed are compns. comprising the compds. I and a method for controlling undesired vegetation which involves contacting the vegetation or its environment with an effective amount of a compound I. Also disclosed are compns. comprising a compound I and at least one addnl. active ingredient selected from the group consisting of an other herbicide and a herbicide safener.

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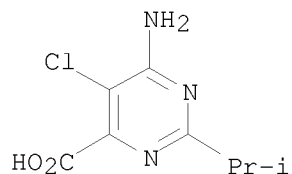
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RL: PRPH (Prophetic)

(Preparation of herbicidal pyrimidines)

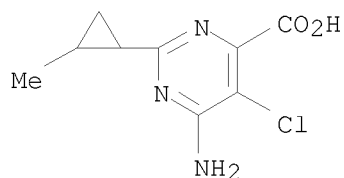
RN 859032-08-9 CAPLUS

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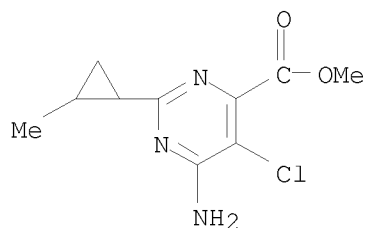
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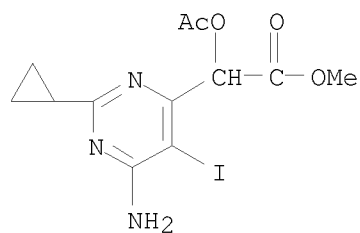


RN 1042145-93-6 CAPLUS

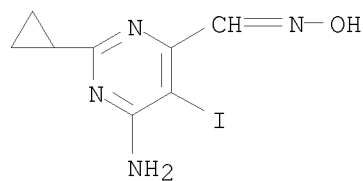
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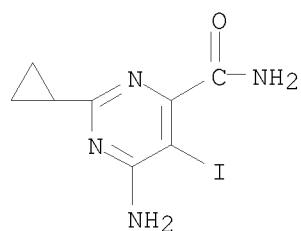
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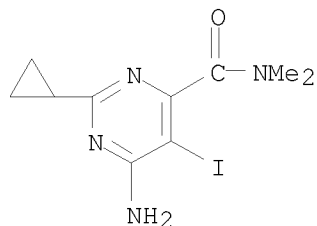
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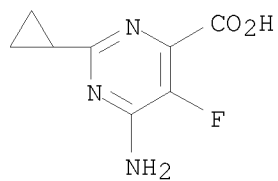
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 CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-iodo- (CA INDEX NAME)



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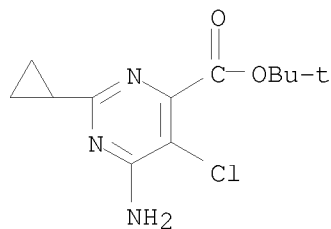


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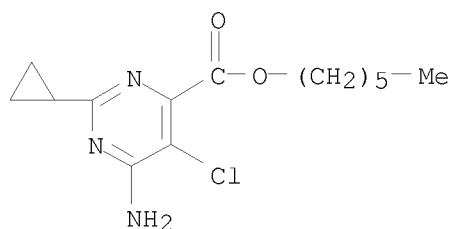


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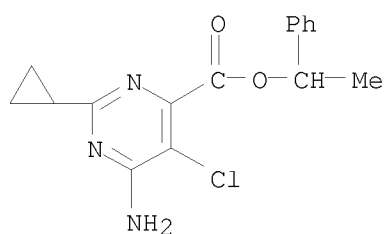
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 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



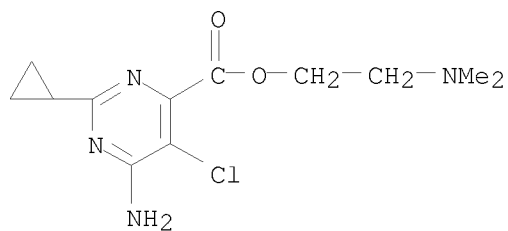
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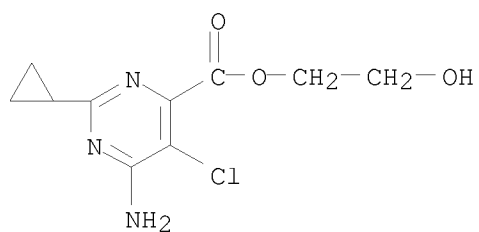
RN 1045227-34-6 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 1-phenylethyl ester (CA INDEX NAME)



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 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 2-(dimethylamino)ethyl ester (CA INDEX NAME)

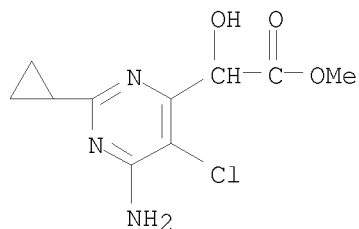


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 2-hydroxyethyl ester (CA INDEX NAME)



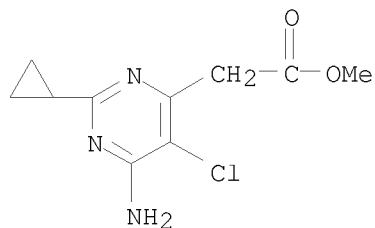
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CN 4-Pyrimidineacetic acid, 6-amino-5-chloro-2-cyclopropyl- α -hydroxy-, methyl ester (CA INDEX NAME)



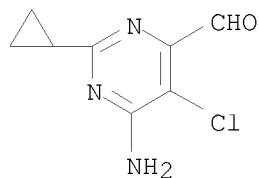
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CN 4-Pyrimidineacetic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



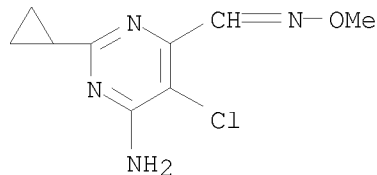
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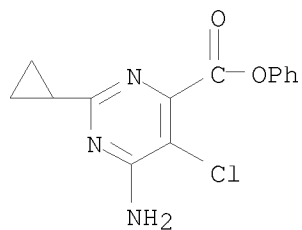
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RN 1045227-49-3 CAPLUS

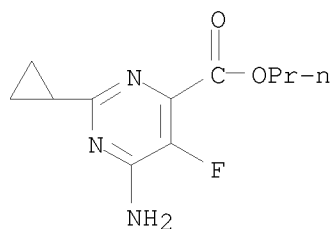
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenyl ester

(CA INDEX NAME)



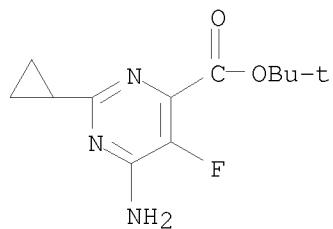
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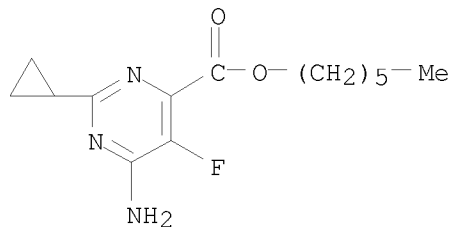
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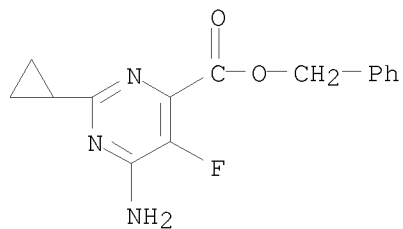
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CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, hexyl ester
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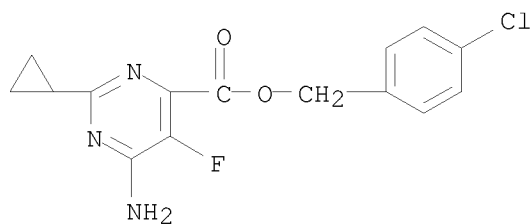
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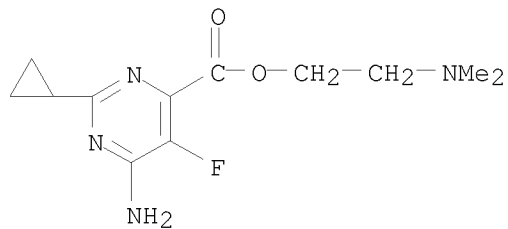
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CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, (4-chlorophenyl)methyl ester (CA INDEX NAME)



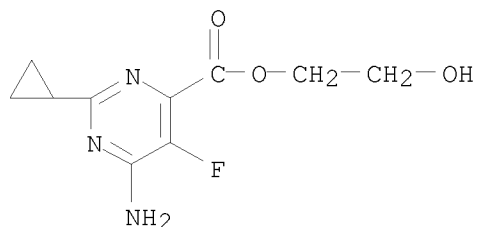
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CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, 2-(dimethylamino)ethyl ester (CA INDEX NAME)

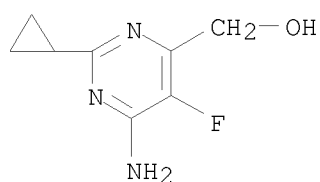


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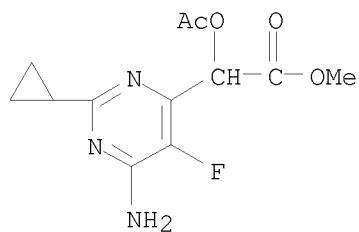
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, 2-hydroxyethyl ester (CA INDEX NAME)



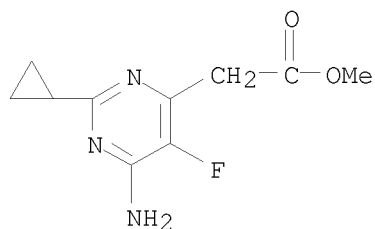
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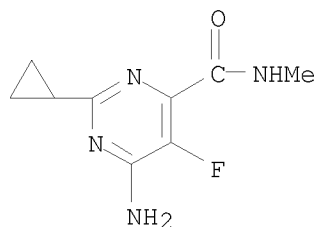
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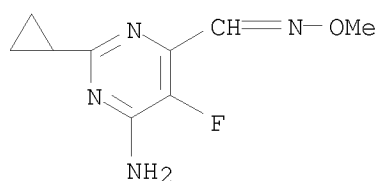
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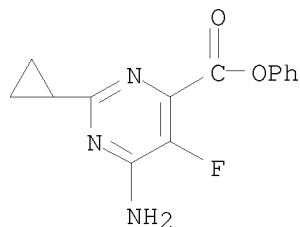
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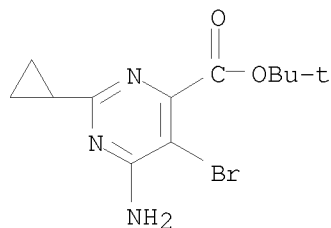
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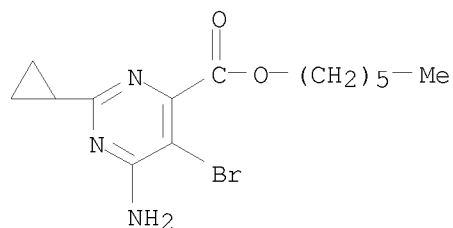
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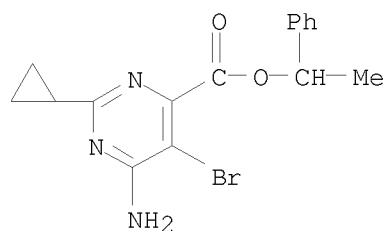


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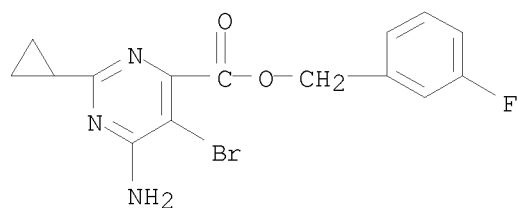
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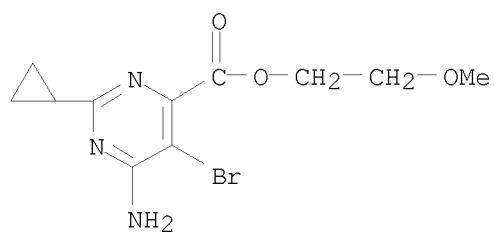
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CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, (3-fluorophenyl)methyl ester (CA INDEX NAME)



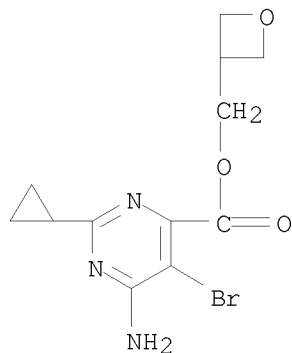
RN 1045227-83-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, 2-methoxyethyl ester (CA INDEX NAME)



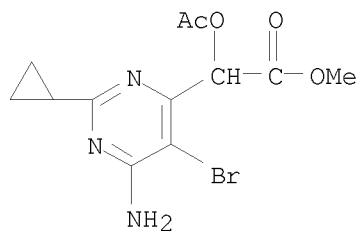
RN 1045227-87-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,
3-oxetanylmethyl ester (CA INDEX NAME)



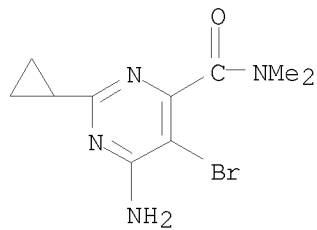
RN 1045227-89-1 CAPLUS

CN 4-Pyrimidineacetic acid, α -(acetyloxy)-6-amino-5-bromo-2-cyclopropyl-,
methyl ester (CA INDEX NAME)



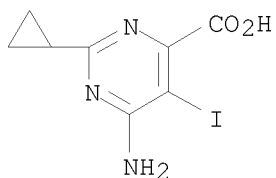
RN 1045227-90-4 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-5-bromo-2-cyclopropyl-N,N-dimethyl- (CA
INDEX NAME)

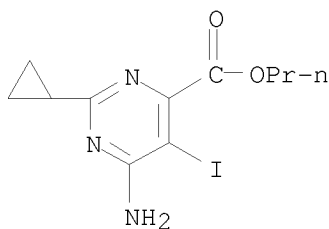


RN 1045227-91-5 CAPLUS

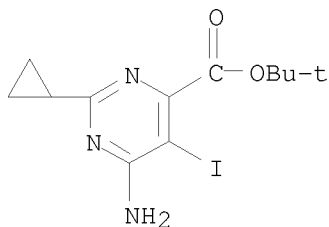
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo- (CA INDEX
NAME)



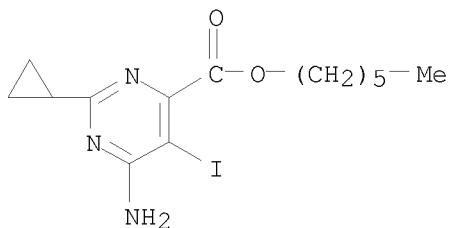
RN 1045227-95-9 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, propyl ester
 (CA INDEX NAME)



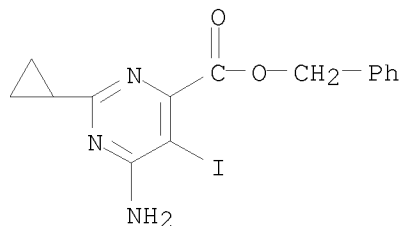
RN 1045227-97-1 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-,
 1,1-dimethylethyl ester (CA INDEX NAME)



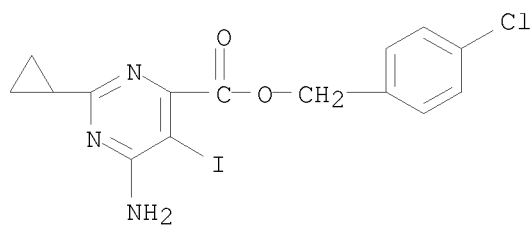
RN 1045227-98-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, hexyl ester
 (CA INDEX NAME)



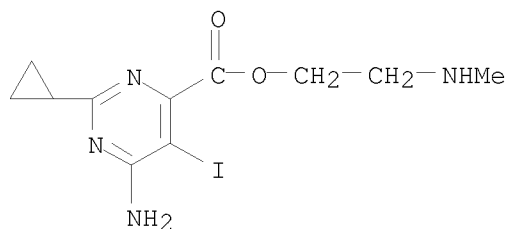
RN 1045227-99-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, phenylmethyl
 ester (CA INDEX NAME)



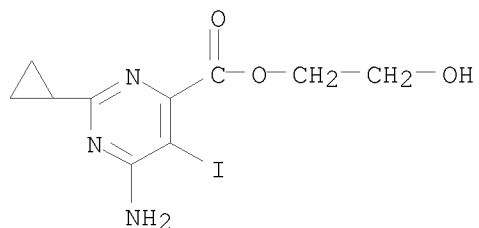
RN 1045228-03-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-,
 (4-chlorophenyl)methyl ester (CA INDEX NAME)



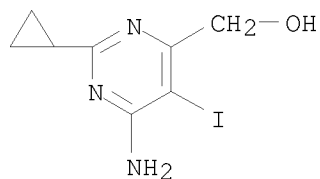
RN 1045228-05-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-,
 2-(methylamino)ethyl ester (CA INDEX NAME)



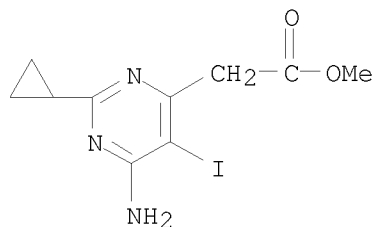
RN 1045228-06-5 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, 2-hydroxyethyl
 ester (CA INDEX NAME)



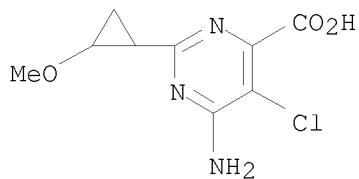
RN 1045228-07-6 CAPLUS
 CN 4-Pyrimidinemethanol, 6-amino-2-cyclopropyl-5-iodo- (CA INDEX NAME)



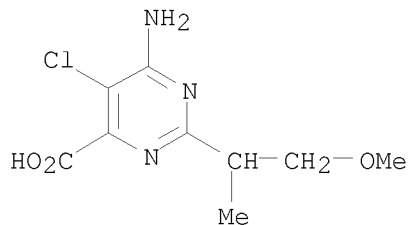
RN 1045228-11-2 CAPLUS
 CN 4-Pyrimidineacetic acid, 6-amino-2-cyclopropyl-5-iodo-, methyl ester (CA INDEX NAME)



RN 1045228-20-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxycyclopropyl)- (CA INDEX NAME)

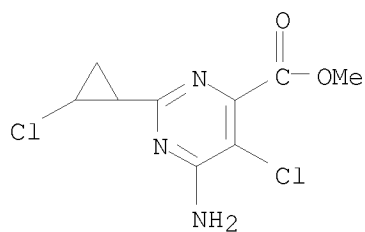


RN 1045228-21-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxy-1-methylethyl)- (CA INDEX NAME)



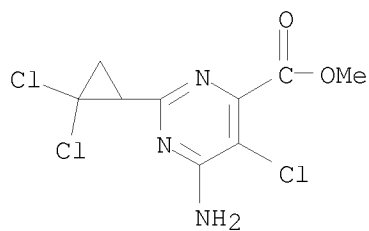
RN 1045228-23-6 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-chlorocyclopropyl)-,

methyl ester (CA INDEX NAME)



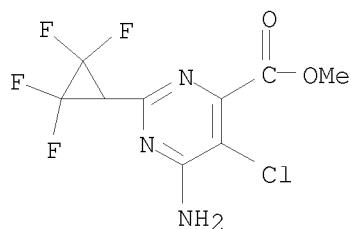
RN 1045228-26-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-dichlorocyclopropyl)-, methyl ester (CA INDEX NAME)



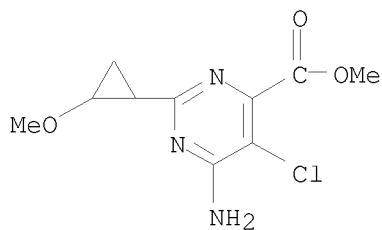
RN 1045228-28-1 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

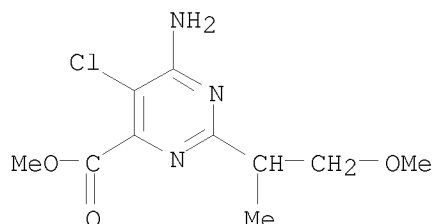


RN 1045228-40-7 CAPLUS

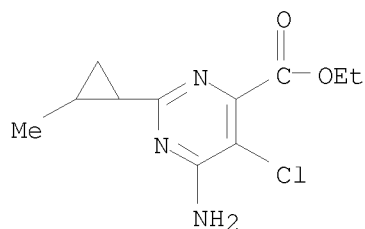
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxycyclopropyl)-, methyl ester (CA INDEX NAME)



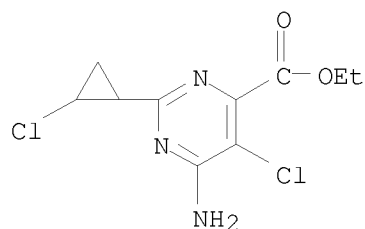
RN 1045228-41-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxy-1-methylethyl)-, methyl ester (CA INDEX NAME)



RN 1045228-42-9 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methylcyclopropyl)-, ethyl ester (CA INDEX NAME)

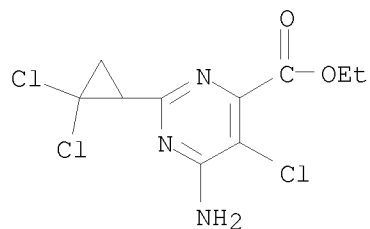


RN 1045228-44-1 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-chlorocyclopropyl)-, ethyl ester (CA INDEX NAME)

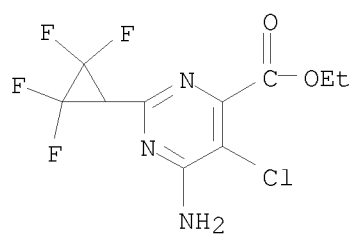


RN 1045228-48-5 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-dichlorocyclopropyl)-, ethyl ester (CA INDEX NAME)

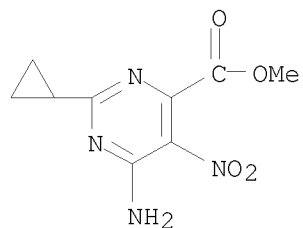
10/581,897 (amended)



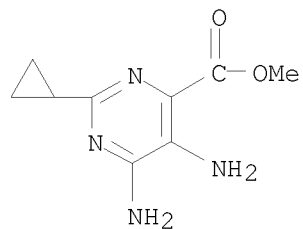
RN 1045228-49-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 1045229-11-5 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-nitro-, methyl ester
(CA INDEX NAME)

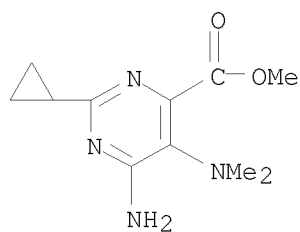


RN 1045229-12-6 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 5,6-diamino-2-cyclopropyl-, methyl ester (CA
INDEX NAME)

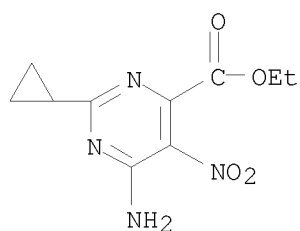


RN 1045229-14-8 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(dimethylamino)-,

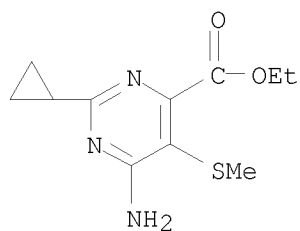
methyl ester (CA INDEX NAME)



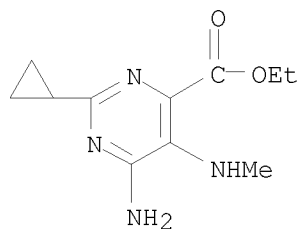
RN 1045229-18-2 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-nitro-, ethyl ester
(CA INDEX NAME)



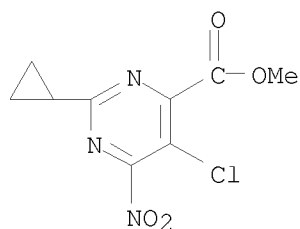
RN 1045229-19-3 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(methylthio)-, ethyl
ester (CA INDEX NAME)



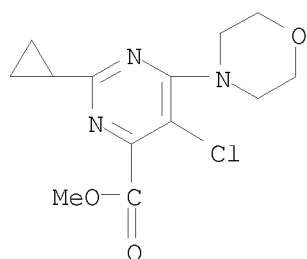
RN 1045229-20-6 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(methylamino)-, ethyl
ester (CA INDEX NAME)



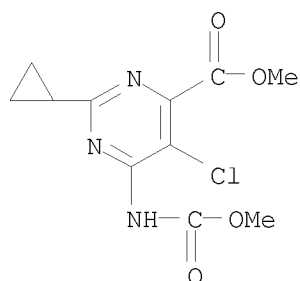
RN 1045229-22-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-nitro-, methyl ester
(CA INDEX NAME)

RN 1045229-26-2 CAPLUS

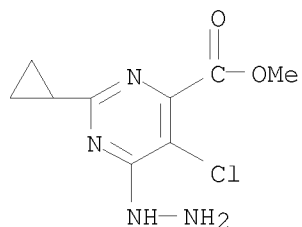
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(4-morpholinyl)-,
methyl ester (CA INDEX NAME)

RN 1045229-27-3 CAPLUS

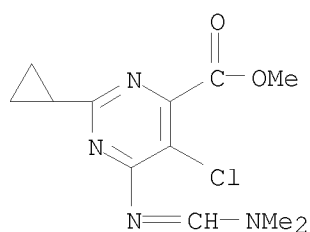
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-
[(methoxycarbonyl)amino]-, methyl ester (CA INDEX NAME)

RN 1045229-28-4 CAPLUS

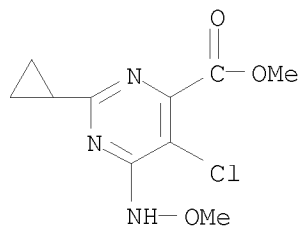
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-hydrazinyl-, methyl
ester (CA INDEX NAME)



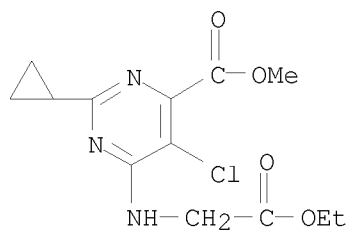
RN 1045229-30-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-
 [[(dimethylamino)methylene]amino]-, methyl ester (CA INDEX NAME)



RN 1045229-34-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(methoxyamino)-,
 methyl ester (CA INDEX NAME)

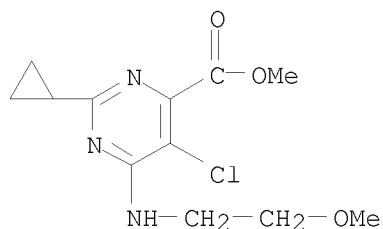


RN 1045229-35-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-ethoxy-2-
 oxoethyl)amino]-, methyl ester (CA INDEX NAME)



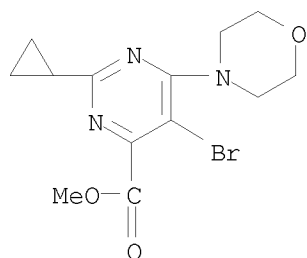
RN 1045229-36-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-methoxyethyl)amino]-, methyl ester (CA INDEX NAME)



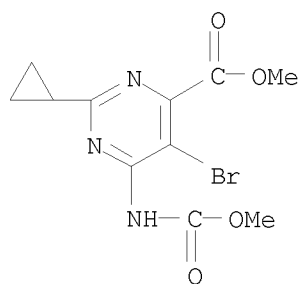
RN 1045229-38-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(4-morpholinyl)-, methyl ester (CA INDEX NAME)



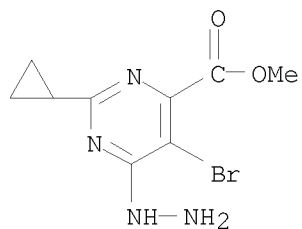
RN 1045229-42-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(methoxycarbonyl)amino]-, methyl ester (CA INDEX NAME)

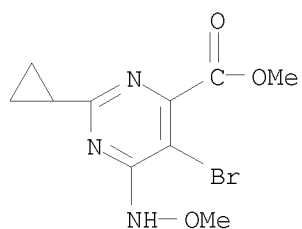


RN 1045229-43-3 CAPLUS

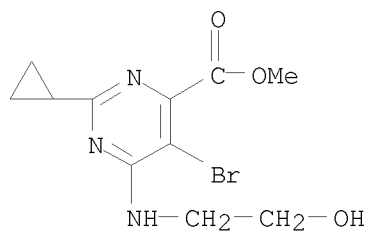
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-hydrazinyl-, methyl ester (CA INDEX NAME)



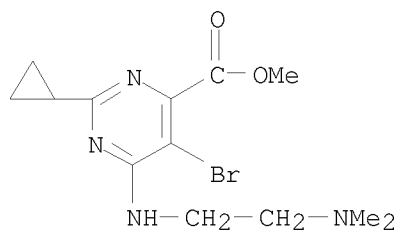
RN 1045229-44-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(methoxyamino)-, methyl ester (CA INDEX NAME)



RN 1045229-46-6 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-hydroxyethyl)amino]-, methyl ester (CA INDEX NAME)

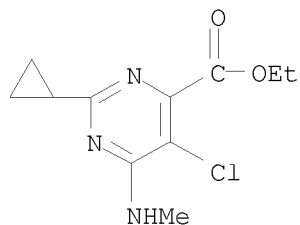


RN 1045229-50-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[[2-(dimethylamino)ethyl]amino]-, methyl ester (CA INDEX NAME)



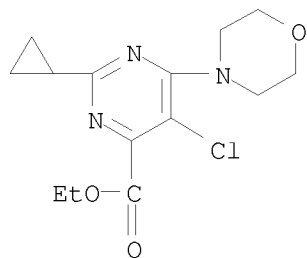
RN 1045229-51-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(methylamino)-, ethyl ester (CA INDEX NAME)



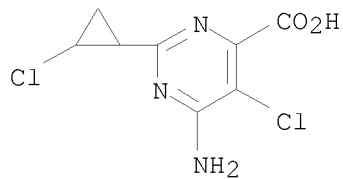
RN 1045229-52-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(4-morpholinyl)-, ethyl ester (CA INDEX NAME)



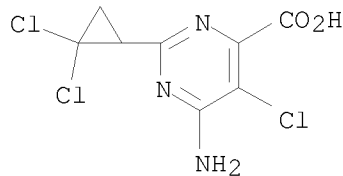
RN 1045229-96-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-chlorocyclopropyl)- (CA INDEX NAME)



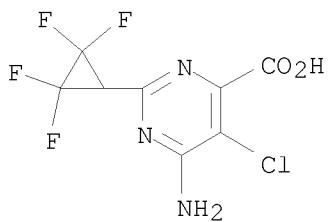
RN 1045229-97-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-dichlorocyclopropyl)- (CA INDEX NAME)



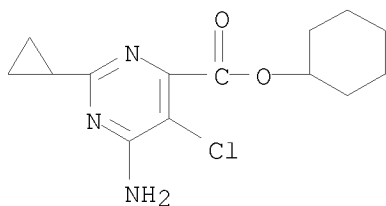
RN 1045229-98-8 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



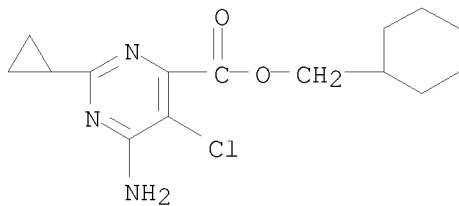
RN 1045230-07-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, cyclohexyl ester (CA INDEX NAME)



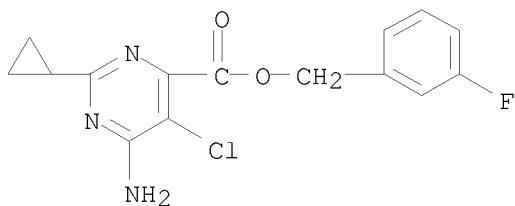
RN 1045230-11-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, cyclohexylmethyl ester (CA INDEX NAME)



RN 1045230-12-3 CAPLUS

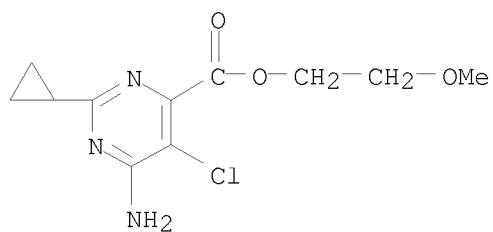
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, (3-fluorophenyl)methyl ester (CA INDEX NAME)



RN 1045230-14-5 CAPLUS

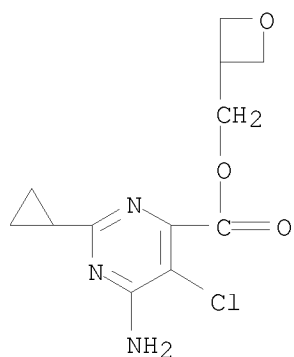
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,

2-methoxyethyl ester (CA INDEX NAME)



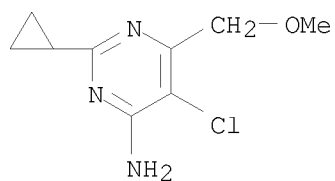
RN 1045230-15-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
3-oxetanylmethyl ester (CA INDEX NAME)



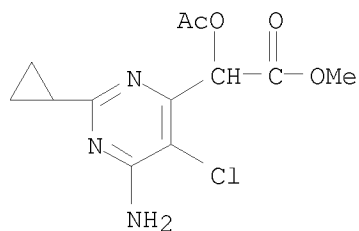
RN 1045230-19-0 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-(methoxymethyl)- (CA INDEX
NAME)

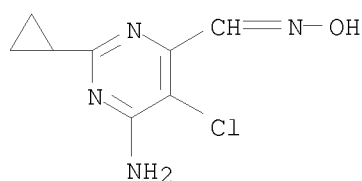


RN 1045230-20-3 CAPLUS

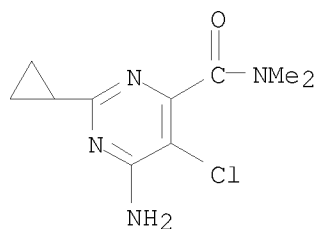
CN 4-Pyrimidineacetic acid, α -(acetyloxy)-6-amino-5-chloro-2-
cyclopropyl-, methyl ester (CA INDEX NAME)



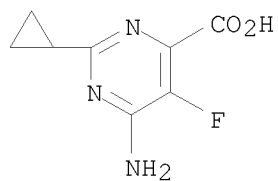
RN 1045230-22-5 CAPLUS
 CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-chloro-2-cyclopropyl-, oxime (CA INDEX NAME)



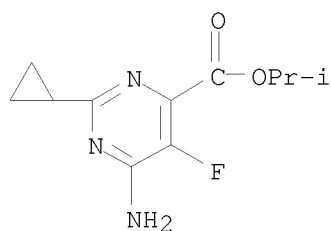
RN 1045230-23-6 CAPLUS
 CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-cyclopropyl-N,N-dimethyl- (CA INDEX NAME)



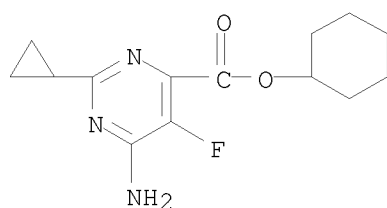
RN 1045230-27-0 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro- (CA INDEX NAME)



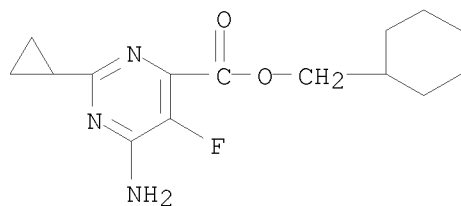
RN 1045230-28-1 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, 1-methylethyl ester (CA INDEX NAME)



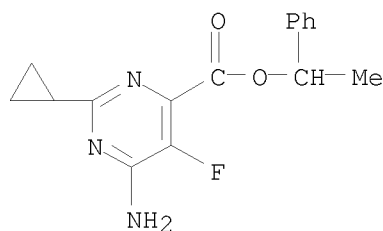
RN 1045230-30-5 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, cyclohexyl ester (CA INDEX NAME)



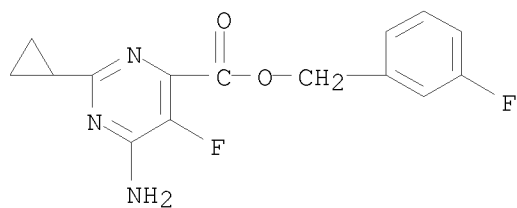
RN 1045230-31-6 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, cyclohexylmethyl ester (CA INDEX NAME)



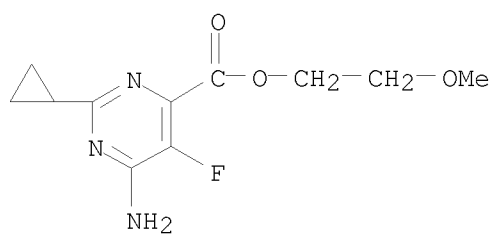
RN 1045230-35-0 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, 1-phenylethyl ester (CA INDEX NAME)



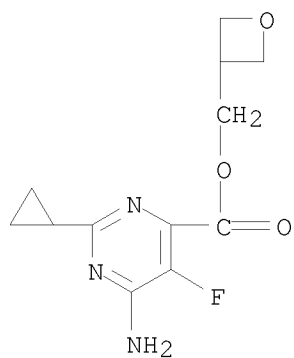
RN 1045230-36-1 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, (3-fluorophenyl)methyl ester (CA INDEX NAME)



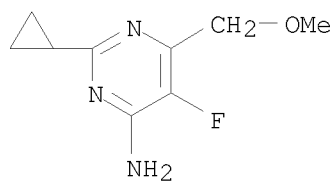
RN 1045230-38-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,
 2-methoxyethyl ester (CA INDEX NAME)



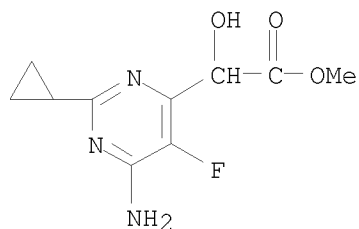
RN 1045230-39-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,
 3-oxetanylmethyl ester (CA INDEX NAME)



RN 1045230-43-0 CAPLUS
 CN 4-Pyrimidinamine, 2-cyclopropyl-5-fluoro-6-(methoxymethyl)- (CA INDEX
 NAME)

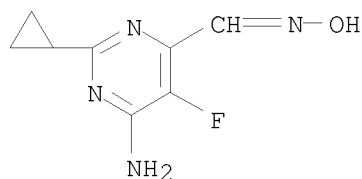


RN 1045230-45-2 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-2-cyclopropyl-5-fluoro- α -hydroxy-, methyl ester (CA INDEX NAME)

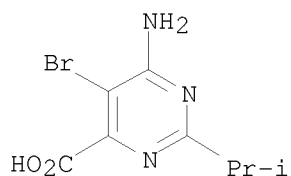
RN 1045230-46-3 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-fluoro-, oxime (CA INDEX NAME)



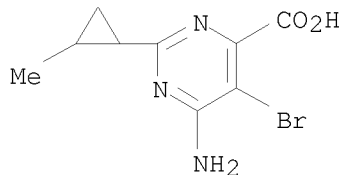
RN 1045230-58-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylethyl)- (CA INDEX NAME)



RN 1045230-59-8 CAPLUS

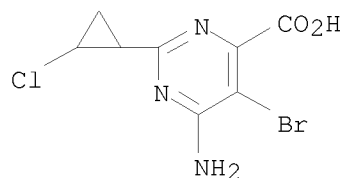
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methylcyclopropyl)- (CA INDEX NAME)



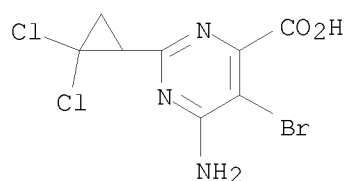
RN 1045230-61-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-chlorocyclopropyl)- (CA INDEX NAME)

INDEX NAME)

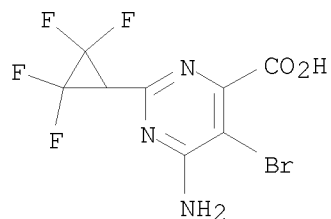


RN 1045230-62-3 CAPLUS

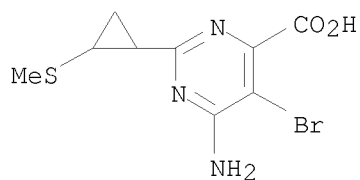
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-dichlorocyclopropyl)-
(CA INDEX NAME)

RN 1045230-66-7 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

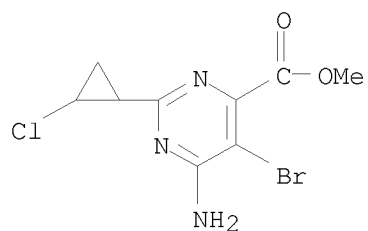


RN 1045230-82-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[2-(methylthio)cyclopropyl]-
(CA INDEX NAME)

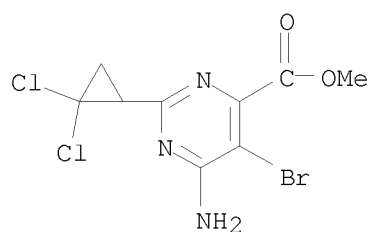
RN 1045230-84-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-chlorocyclopropyl)-,
methyl ester (CA INDEX NAME)



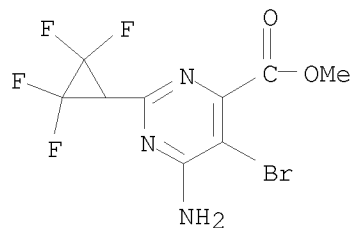
RN 1045230-86-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-dichlorocyclopropyl)-, methyl ester (CA INDEX NAME)



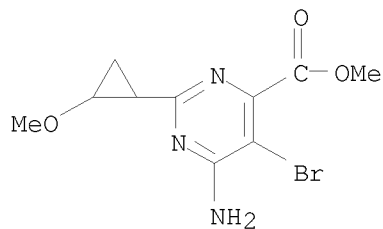
RN 1045230-88-3 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



RN 1045231-01-3 CAPLUS

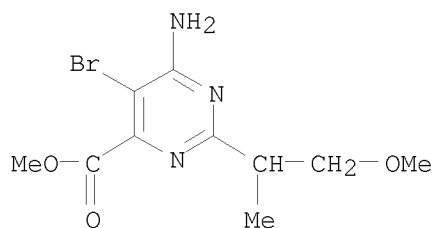
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxycyclopropyl)-, methyl ester (CA INDEX NAME)



RN 1045231-02-4 CAPLUS

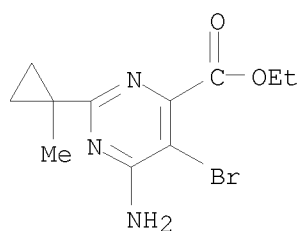
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxy-1-methylethyl)-,

methyl ester (CA INDEX NAME)



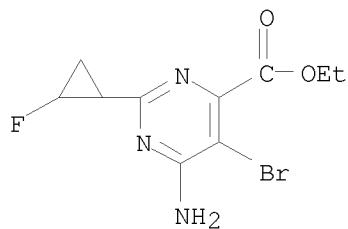
RN 1045231-04-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylcyclopropyl)-, ethyl ester (CA INDEX NAME)



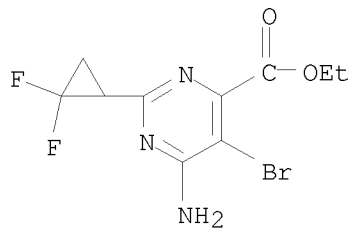
RN 1045231-07-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-fluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



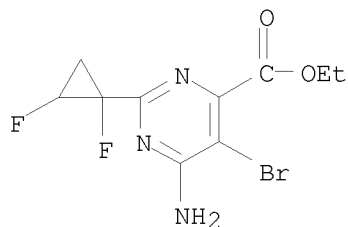
RN 1045231-09-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-difluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



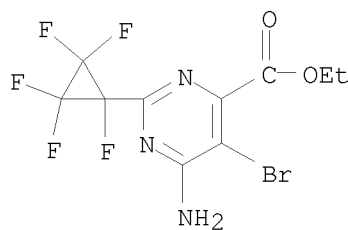
RN 1045231-10-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2-difluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



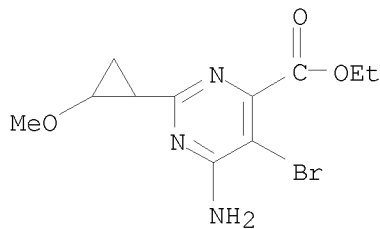
RN 1045231-12-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2,2,3,3-pentafluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



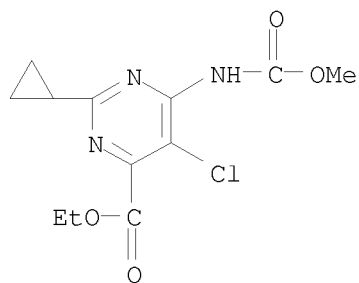
RN 1045231-23-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxycyclopropyl)-, ethyl ester (CA INDEX NAME)



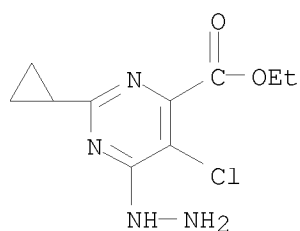
RN 1045231-57-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(methoxycarbonyl)amino]-, ethyl ester (CA INDEX NAME)



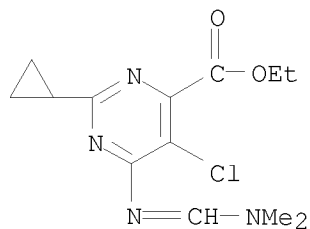
RN 1045231-59-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-hydrazinyl-, ethyl ester (CA INDEX NAME)



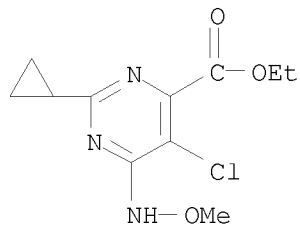
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[dimethylamino)methylene]amino]-, ethyl ester (CA INDEX NAME)



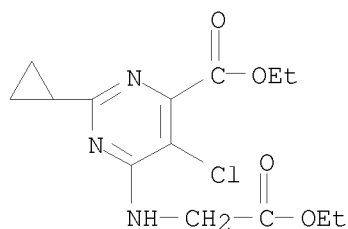
RN 1045231-63-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(methoxyamino)-, ethyl ester (CA INDEX NAME)



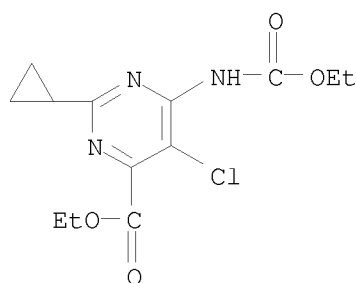
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-ethoxy-2-oxoethyl)amino]-, ethyl ester (CA INDEX NAME)



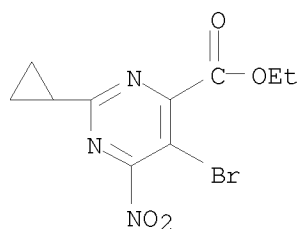
RN 1045231-66-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(ethoxycarbonyl)amino]-, ethyl ester (CA INDEX NAME)



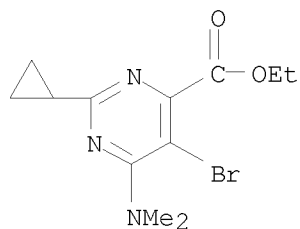
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CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-nitro-, ethyl ester (CA INDEX NAME)

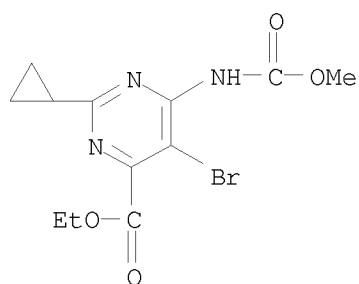


RN 1045231-71-7 CAPLUS

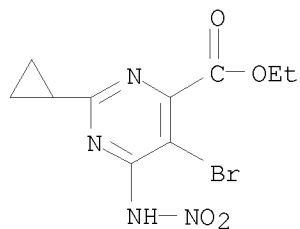
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(dimethylamino)-, ethyl ester (CA INDEX NAME)



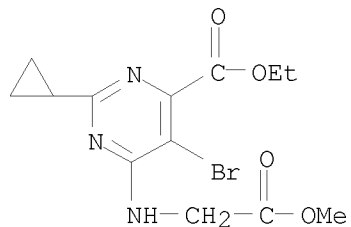
RN 1045231-73-9 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-
 [(methoxycarbonyl)amino]-, ethyl ester (CA INDEX NAME)



RN 1045231-74-0 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(nitroamino)-, ethyl
 ester (CA INDEX NAME)

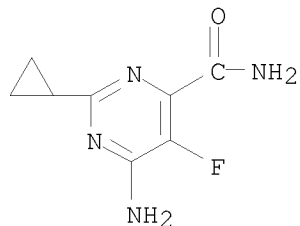


RN 1045231-78-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-methoxy-2-
 oxoethyl)amino]-, ethyl ester (CA INDEX NAME)



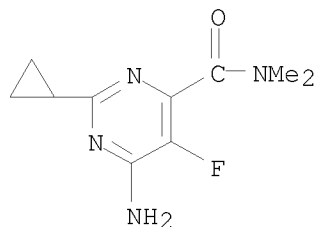
RN 1045232-62-9 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-fluoro- (CA INDEX NAME)



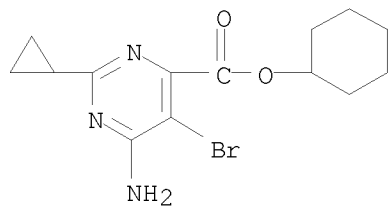
RN 1045232-64-1 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-fluoro-N,N-dimethyl- (CA INDEX NAME)



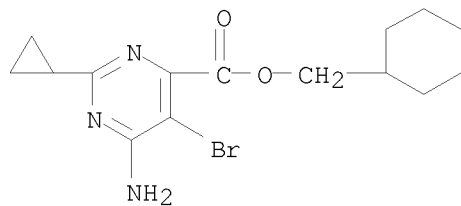
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CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, cyclohexyl ester (CA INDEX NAME)

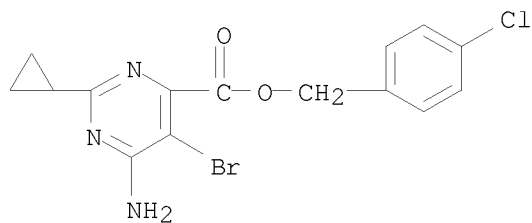


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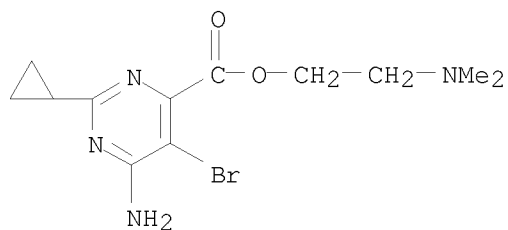
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, cyclohexylmethyl ester (CA INDEX NAME)



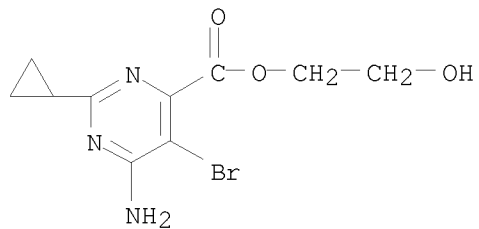
RN 1045232-71-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,
(4-chlorophenyl)methyl ester (CA INDEX NAME)

RN 1045232-72-1 CAPLUS

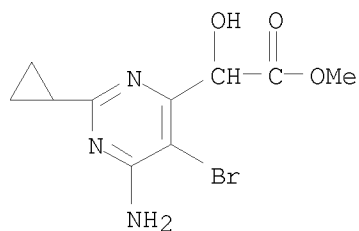
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,
2-(dimethylamino)ethyl ester (CA INDEX NAME)

RN 1045232-76-5 CAPLUS

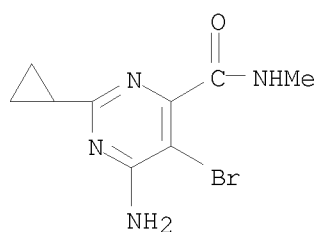
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,
2-hydroxyethyl ester (CA INDEX NAME)

RN 1045232-77-6 CAPLUS

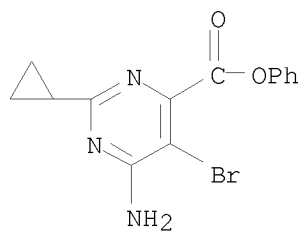
CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl- α -hydroxy-,
methyl ester (CA INDEX NAME)



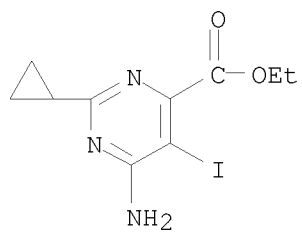
RN 1045232-79-8 CAPLUS
CN 4-Pyrimidinecarboxamide, 6-amino-5-bromo-2-cyclopropyl-N-methyl- (CA INDEX NAME)



RN 1045232-80-1 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenyl ester (CA INDEX NAME)

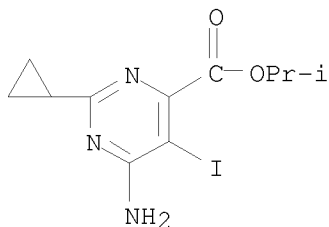


RN 1045232-83-4 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, ethyl ester (CA INDEX NAME)



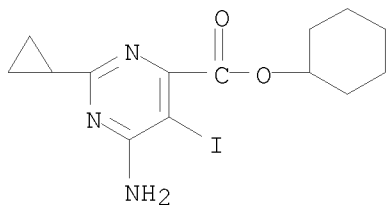
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CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, 1-methylethyl ester (CA INDEX NAME)



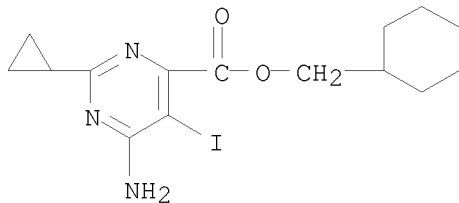
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CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, cyclohexyl ester (CA INDEX NAME)



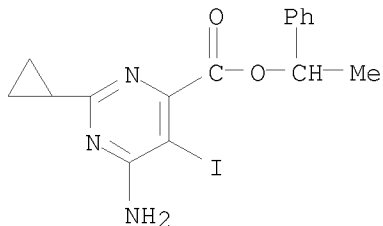
RN 1045232-88-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, cyclohexylmethyl ester (CA INDEX NAME)

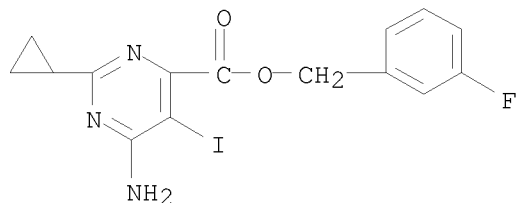


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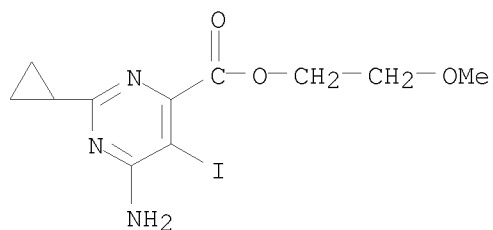
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, 1-phenylethyl ester (CA INDEX NAME)



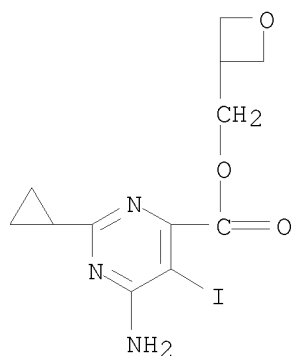
RN 1045232-92-5 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-,
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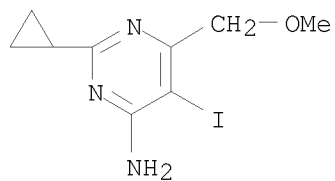
RN 1045232-95-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, 2-methoxyethyl
 ester (CA INDEX NAME)



RN 1045232-96-9 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-,
 3-oxetanylmethyl ester (CA INDEX NAME)

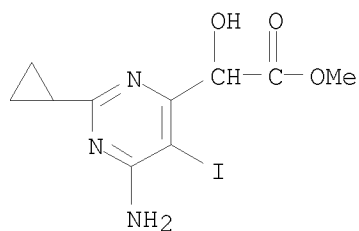


RN 1045232-99-2 CAPLUS
 CN 4-Pyrimidinamine, 2-cyclopropyl-5-iodo-6-(methoxymethyl)- (CA INDEX NAME)



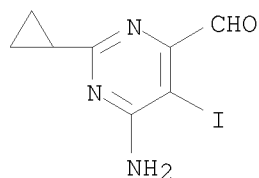
RN 1045233-00-8 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-2-cyclopropyl- α -hydroxy-5-iodo-, methyl ester (CA INDEX NAME)



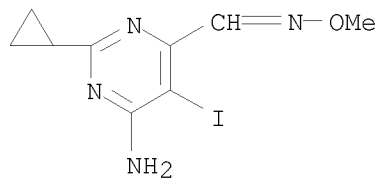
RN 1045233-03-1 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-iodo- (CA INDEX NAME)



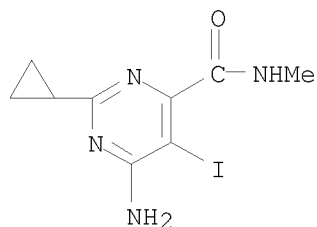
RN 1045233-04-2 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-iodo-, O-methyloxime (CA INDEX NAME)

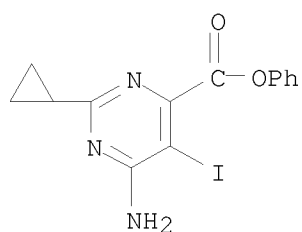


RN 1045233-07-5 CAPLUS

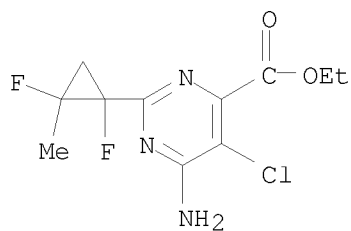
CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-iodo-N-methyl- (CA INDEX NAME)



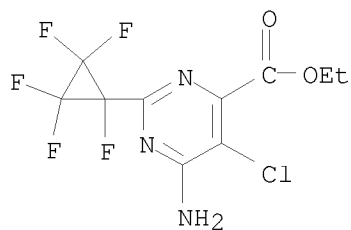
RN 1045233-08-6 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, phenyl ester
 (CA INDEX NAME)



RN 1045233-26-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2-difluoro-2-methylcyclopropyl)-, ethyl ester (CA INDEX NAME)

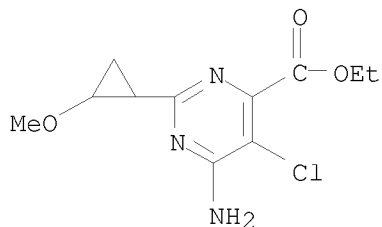


RN 1045233-28-0 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2,2,3,3-pentafluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



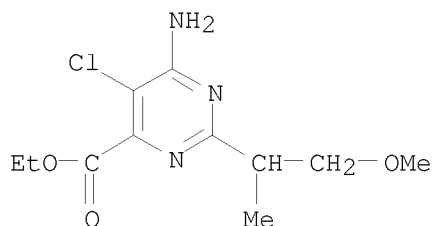
RN 1045233-36-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxycyclopropyl)-, ethyl ester (CA INDEX NAME)



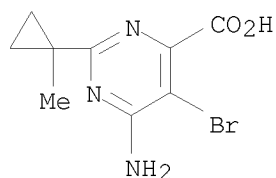
RN 1045233-37-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxy-1-methylethyl)-, ethyl ester (CA INDEX NAME)



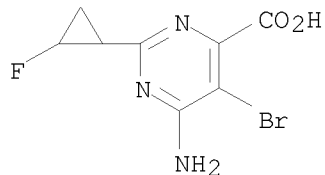
RN 1045233-41-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylcyclopropyl)- (CA INDEX NAME)



RN 1045233-42-8 CAPLUS

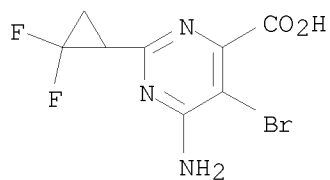
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-fluorocyclopropyl)- (CA INDEX NAME)



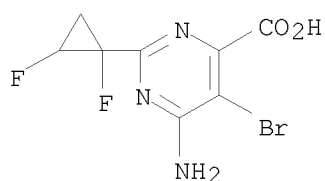
RN 1045233-44-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-difluorocyclopropyl)-

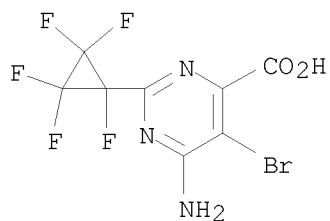
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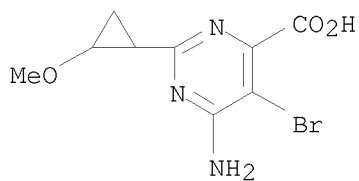
RN 1045233-45-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2-difluorocyclopropyl)-
(CA INDEX NAME)

RN 1045233-49-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2,2,3,3-pentafluorocyclopropyl)-
(CA INDEX NAME)

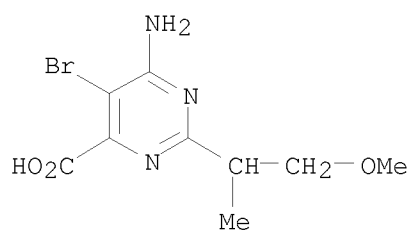
RN 1045233-61-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxycyclopropyl)-
(CA INDEX NAME)

RN 1045233-65-5 CAPLUS

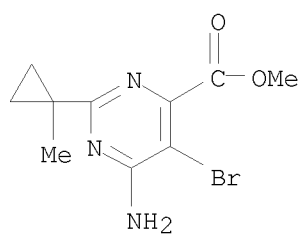
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxy-1-methylethyl)-
(CA INDEX NAME)

10/581,897 (amended)



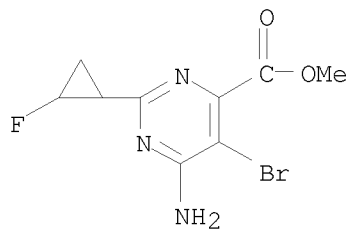
RN 1045233-67-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylcyclopropyl)-,
methyl ester (CA INDEX NAME)



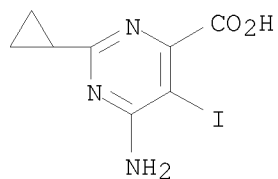
RN 1045233-68-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-fluorocyclopropyl)-,
methyl ester (CA INDEX NAME)



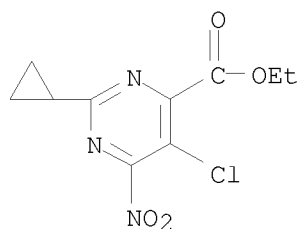
RN 1045233-74-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, potassium salt
(1:1) (CA INDEX NAME)

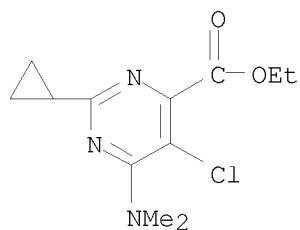


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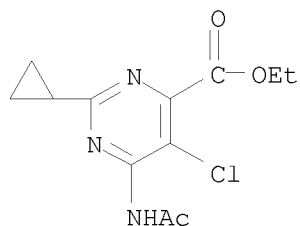
RN 1045234-22-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-nitro-, ethyl ester
 (CA INDEX NAME)



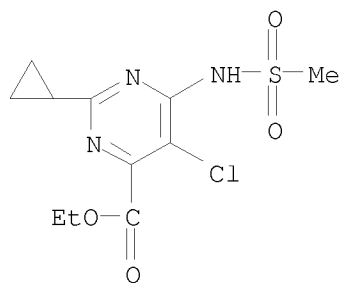
RN 1045234-23-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(dimethylamino)-,
 ethyl ester (CA INDEX NAME)



RN 1045234-27-2 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-chloro-2-cyclopropyl-,
 ethyl ester (CA INDEX NAME)

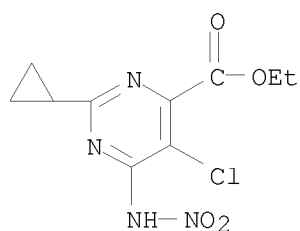


RN 1045234-28-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-
 [(methylsulfonyl)amino]-, ethyl ester (CA INDEX NAME)



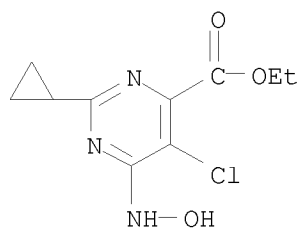
RN 1045234-30-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(nitroamino)-, ethyl ester (CA INDEX NAME)



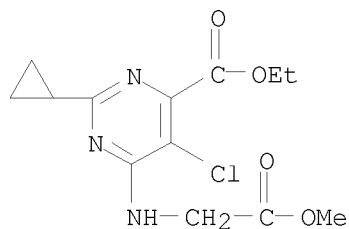
RN 1045234-31-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(hydroxyamino)-, ethyl ester (CA INDEX NAME)



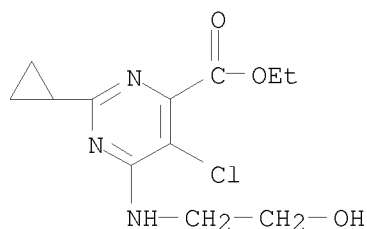
RN 1045234-35-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-methoxy-2-oxoethyl)amino]-, ethyl ester (CA INDEX NAME)



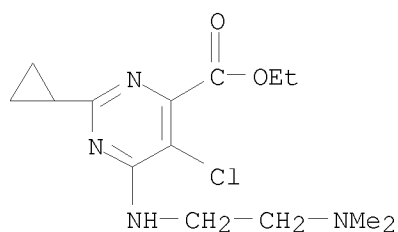
RN 1045234-36-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxyethyl)amino]-, ethyl ester (CA INDEX NAME)



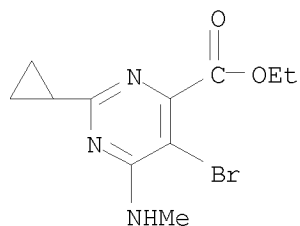
RN 1045234-38-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(dimethylamino)ethyl]amino]-, ethyl ester (CA INDEX NAME)



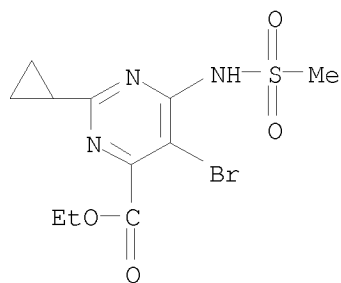
RN 1045234-39-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(methylamino)-, ethyl ester (CA INDEX NAME)



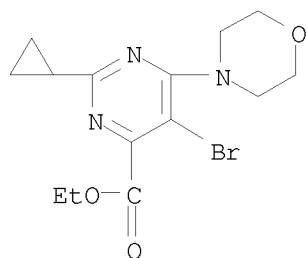
RN 1045234-43-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(methylsulfonyl)amino]-, ethyl ester (CA INDEX NAME)



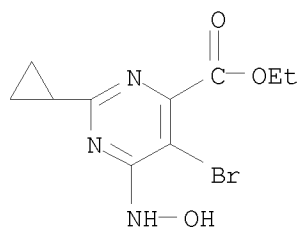
RN 1045234-44-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(4-morpholinyl)-, ethyl ester (CA INDEX NAME)



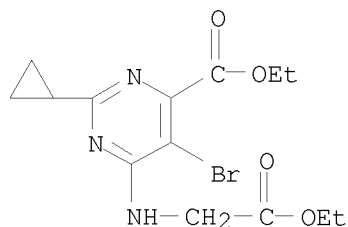
RN 1045234-46-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(hydroxyamino)-, ethyl ester (CA INDEX NAME)



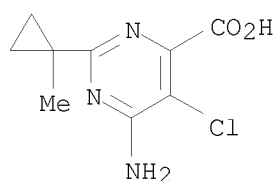
RN 1045234-47-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-ethoxy-2-oxoethyl)amino]-, ethyl ester (CA INDEX NAME)



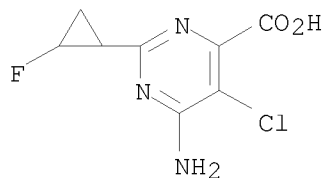
RN 1045234-86-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylcyclopropyl)-
(CA INDEX NAME)



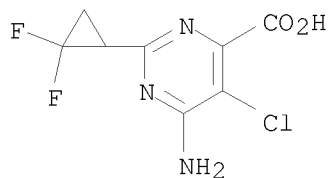
RN 1045234-87-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-fluorocyclopropyl)-
(CA INDEX NAME)



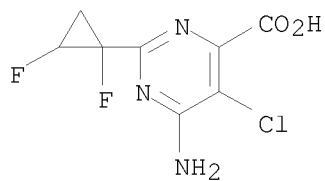
RN 1045234-88-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-difluorocyclopropyl)-
(CA INDEX NAME)

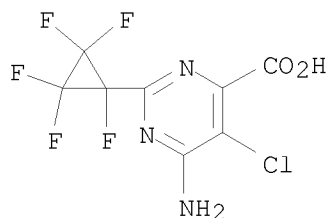


RN 1045234-91-0 CAPLUS

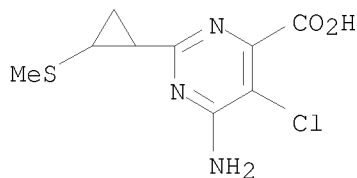
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2-difluorocyclopropyl)-
(CA INDEX NAME)



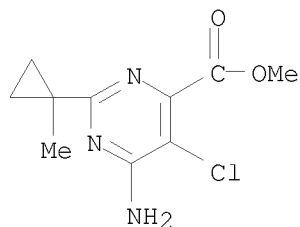
RN 1045234-94-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2,2,3,3-pentafluorocyclopropyl)- (CA INDEX NAME)



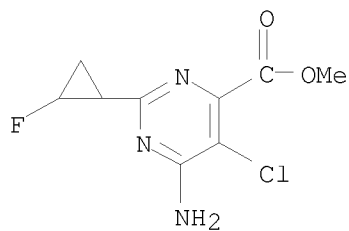
RN 1045235-01-5 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[2-(methylthio)cyclopropyl]- (CA INDEX NAME)



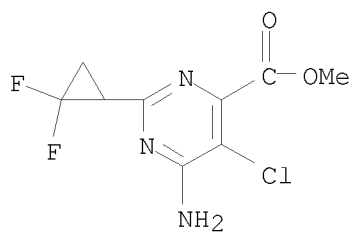
RN 1045235-04-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylcyclopropyl)-, methyl ester (CA INDEX NAME)



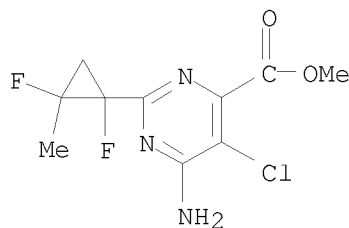
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 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-fluorocyclopropyl)-, methyl ester (CA INDEX NAME)



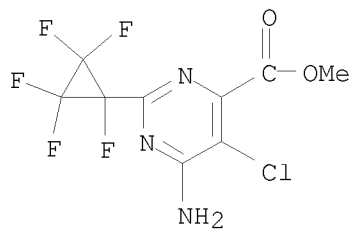
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 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-difluorocyclopropyl)-, methyl ester (CA INDEX NAME)



RN 1045235-09-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2-difluoro-2-methylcyclopropyl)-, methyl ester (CA INDEX NAME)

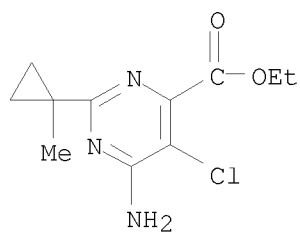


RN 1045235-11-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2,2,3,3-pentafluorocyclopropyl)-, methyl ester (CA INDEX NAME)



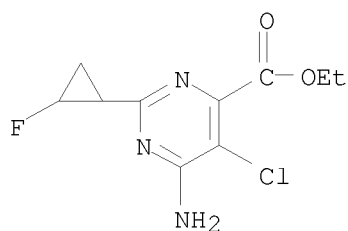
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 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylcyclopropyl)-,

ethyl ester (CA INDEX NAME)



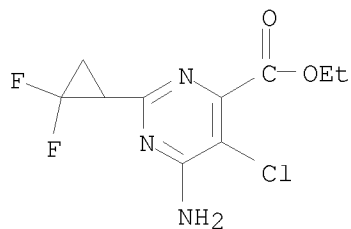
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CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-fluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



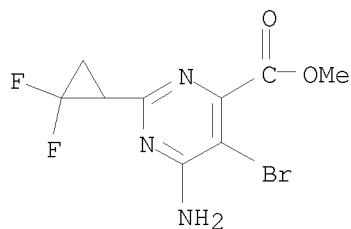
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CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-difluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



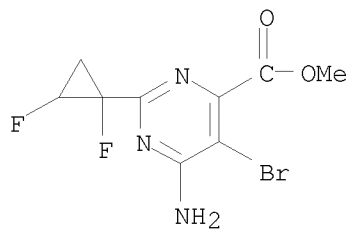
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CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-difluorocyclopropyl)-, methyl ester (CA INDEX NAME)



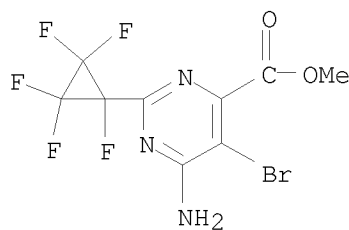
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CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2-difluorocyclopropyl)-, methyl ester (CA INDEX NAME)



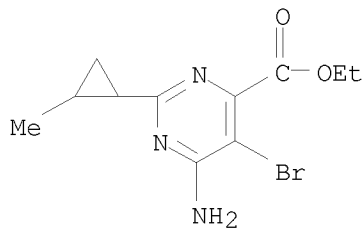
RN 1045235-83-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2,2,3,3-pentafluorocyclopropyl)-, methyl ester (CA INDEX NAME)



RN 1045235-99-1 CAPLUS

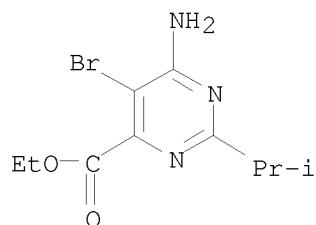
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methylcyclopropyl)-, ethyl ester (CA INDEX NAME)



RN 1045236-01-8 CAPLUS

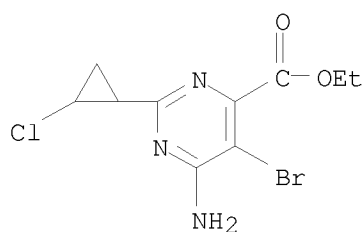
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylethyl)-, ethyl ester (CA INDEX NAME)

10/581,897 (amended)



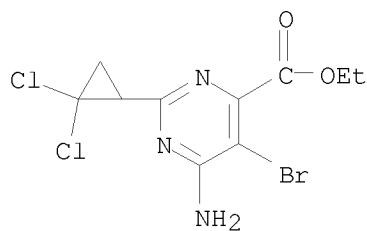
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CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-chlorocyclopropyl)-, ethyl ester (CA INDEX NAME)



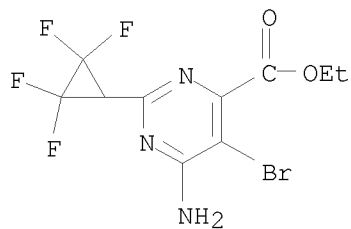
RN 1045236-06-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-dichlorocyclopropyl)-, ethyl ester (CA INDEX NAME)



RN 1045236-07-4 CAPLUS

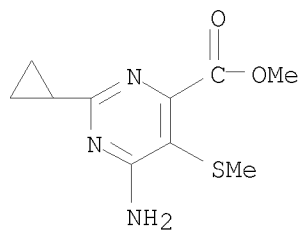
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RN 1045236-23-4 CAPLUS

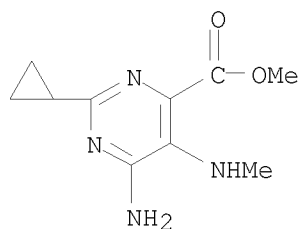
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(methylthio)-, methyl

ester (CA INDEX NAME)



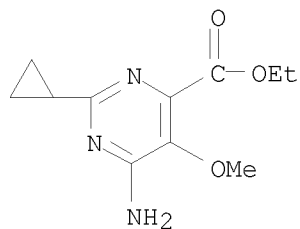
RN 1045236-25-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(methylamino)-, methyl ester (CA INDEX NAME)



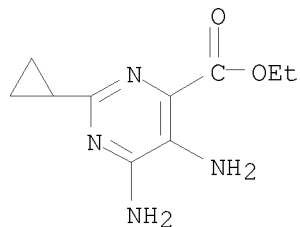
RN 1045236-30-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-methoxy-, ethyl ester (CA INDEX NAME)



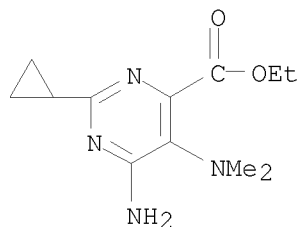
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CN 4-Pyrimidinecarboxylic acid, 5,6-diamino-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



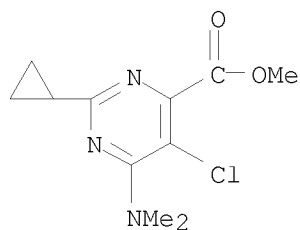
RN 1045236-32-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(dimethylamino)-, ethyl ester (CA INDEX NAME)



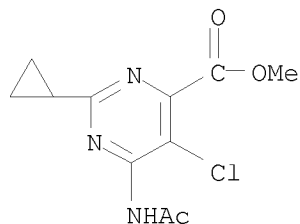
RN 1045236-34-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(dimethylamino)-, methyl ester (CA INDEX NAME)



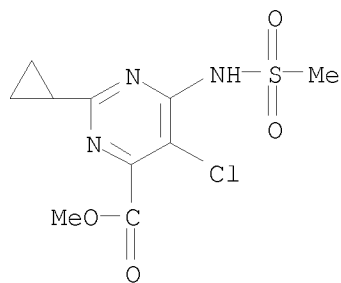
RN 1045236-38-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



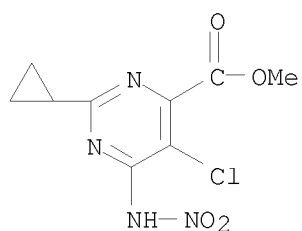
RN 1045236-39-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(methylsulfonyl)amino]-, methyl ester (CA INDEX NAME)



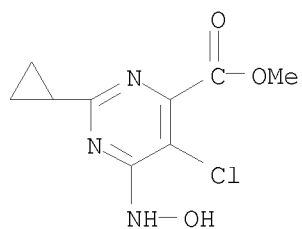
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(nitroamino)-, methyl ester (CA INDEX NAME)



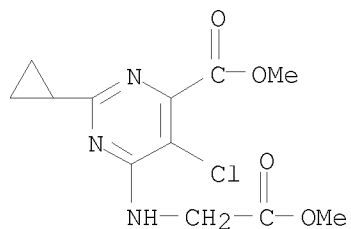
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CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(hydroxyamino)-, methyl ester (CA INDEX NAME)



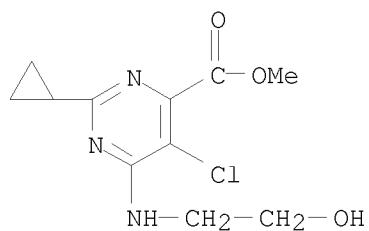
RN 1045236-46-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-methoxy-2-oxoethyl)amino]-, methyl ester (CA INDEX NAME)



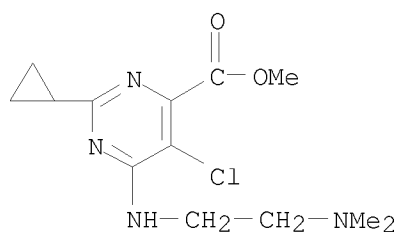
RN 1045236-47-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxyethyl)amino]-, methyl ester (CA INDEX NAME)



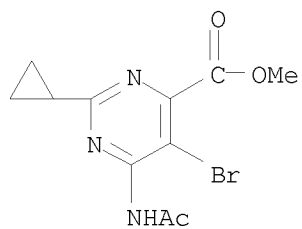
RN 1045236-48-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(dimethylamino)ethyl]amino]-, methyl ester (CA INDEX NAME)



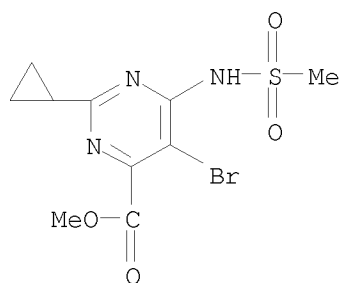
RN 1045236-50-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-bromo-2-cyclopropyl-, methyl ester (CA INDEX NAME)



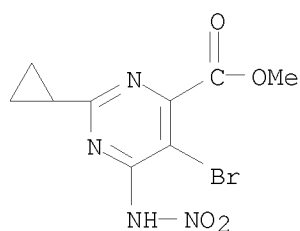
RN 1045236-54-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(methylsulfonyl)amino]-, methyl ester (CA INDEX NAME)



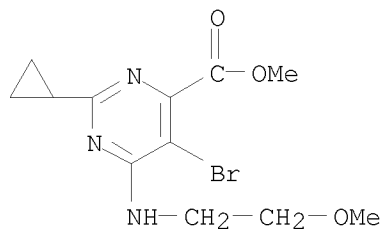
RN 1045236-55-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(nitroamino)-, methyl ester (CA INDEX NAME)



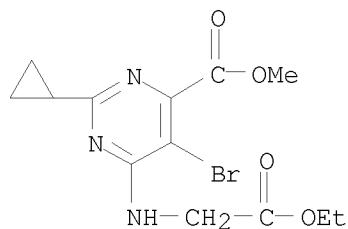
RN 1045236-57-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-methoxyethyl)amino]-, methyl ester (CA INDEX NAME)

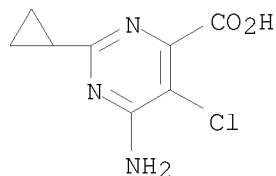


RN 1045236-58-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-ethoxy-2-oxoethyl)amino]-, methyl ester (CA INDEX NAME)



IT 858956-08-8P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of herbicidal pyrimidines)
 RN 858956-08-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)

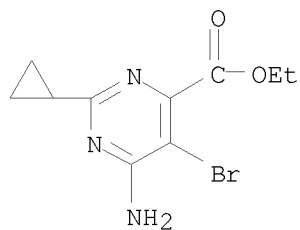


IT	858954-76-4P	858954-77-5P	858954-78-6P
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	858954-82-2P	858954-83-3P	858954-84-4P
	858954-85-5P	858954-86-6P	858954-87-7P
	858954-88-8P	858954-89-9P	858954-90-2P
	858954-91-3P	858954-93-5P	858954-94-6P
	858954-95-7P	858954-96-8P	858954-98-0P
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	858955-05-2P	858955-06-3P	858955-07-4P
	858955-08-5P	858955-09-6P	858955-11-0P
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	858955-18-7P	858955-19-8P	858955-20-1P
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	858955-24-5P	858955-25-6P	858955-26-7P
	858955-27-8P	858955-28-9P	858955-29-0P
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RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of herbicidal pyrimidines)

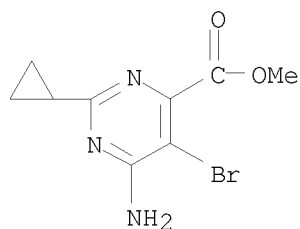
RN 858954-76-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester

(CA INDEX NAME)



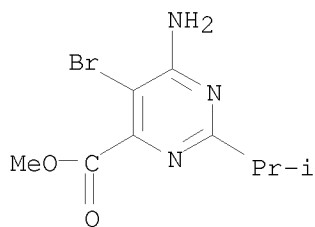
RN 858954-77-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester
(CA INDEX NAME)



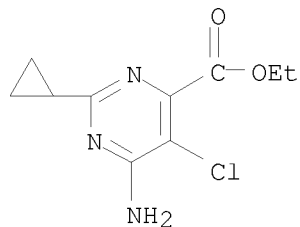
RN 858954-78-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylethyl)-, methyl ester
(CA INDEX NAME)

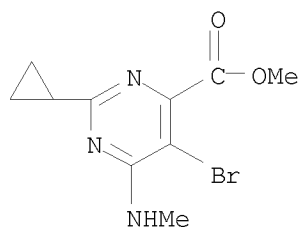


RN 858954-79-7 CAPLUS

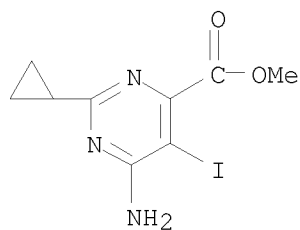
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester
(CA INDEX NAME)



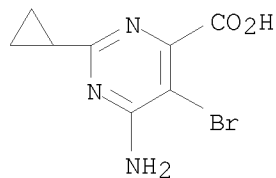
RN 858954-80-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(methylamino)-,
methyl ester (CA INDEX NAME)

RN 858954-81-1 CAPLUS

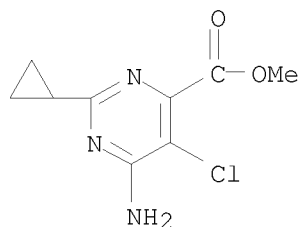
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, methyl ester
(CA INDEX NAME)

RN 858954-82-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX
NAME)

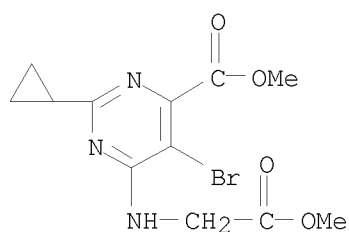
RN 858954-83-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester
(CA INDEX NAME)



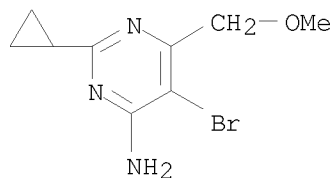
RN 858954-84-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-methoxy-2-oxoethyl)amino]-, methyl ester (CA INDEX NAME)



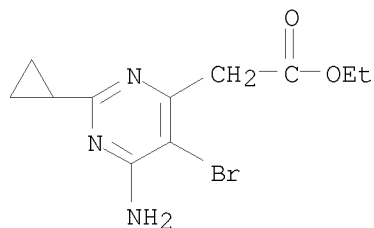
RN 858954-85-5 CAPLUS

CN 4-Pyrimidinamine, 5-bromo-2-cyclopropyl-6-(methoxymethyl)- (CA INDEX NAME)



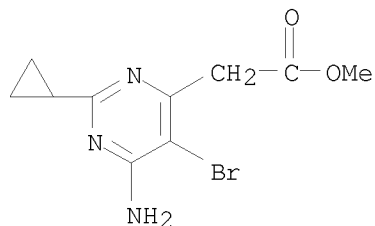
RN 858954-86-6 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



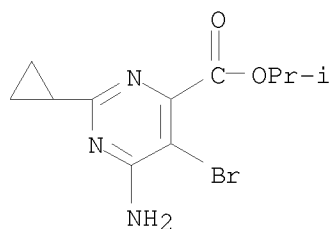
RN 858954-87-7 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester (CA INDEX NAME)



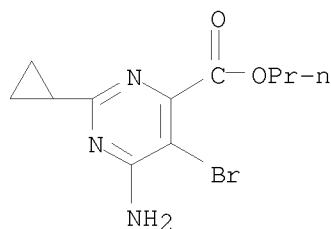
RN 858954-88-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, 1-methylethyl ester (CA INDEX NAME)



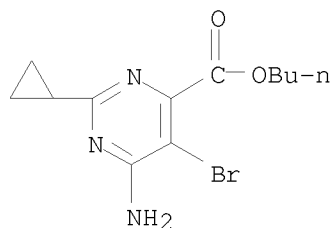
RN 858954-89-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, propyl ester (CA INDEX NAME)

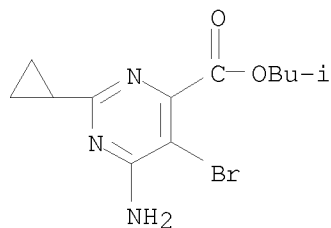


RN 858954-90-2 CAPLUS

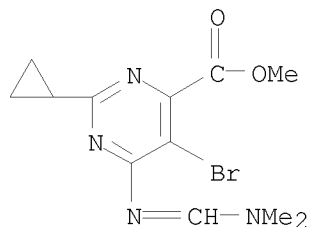
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, butyl ester (CA INDEX NAME)



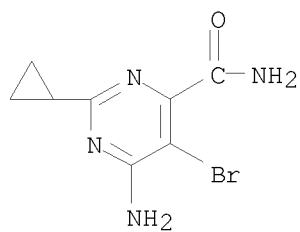
RN 858954-91-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,
 2-methylpropyl ester (CA INDEX NAME)



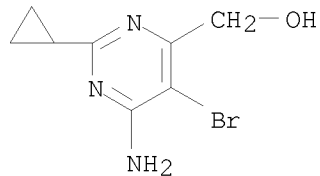
RN 858954-93-5 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-
 [[(dimethylamino)methylene]amino]-, methyl ester (CA INDEX NAME)



RN 858954-94-6 CAPLUS
 CN 4-Pyrimidinecarboxamide, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)

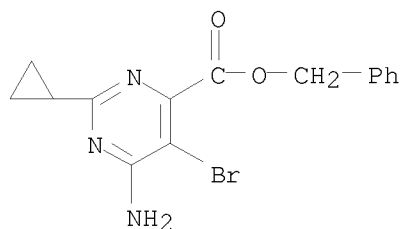


RN 858954-95-7 CAPLUS
 CN 4-Pyrimidinemethanol, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)



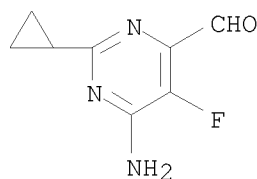
RN 858954-96-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



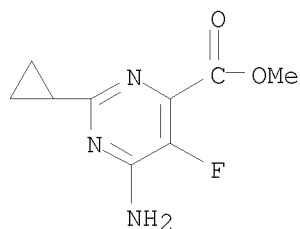
RN 858954-98-0 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-fluoro- (CA INDEX NAME)



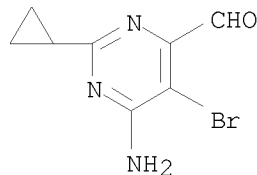
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CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, methyl ester (CA INDEX NAME)



RN 858955-00-7 CAPLUS

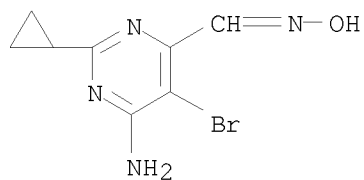
CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)



RN 858955-01-8 CAPLUS

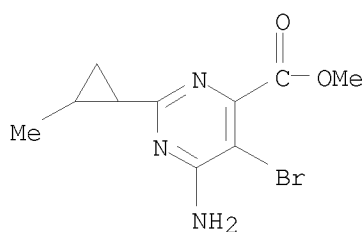
CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl-, oxime (CA

INDEX NAME)



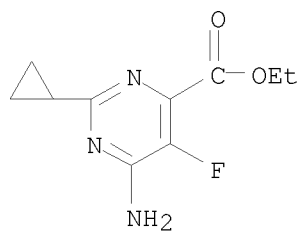
RN 858955-02-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methylcyclopropyl)-, methyl ester (CA INDEX NAME)

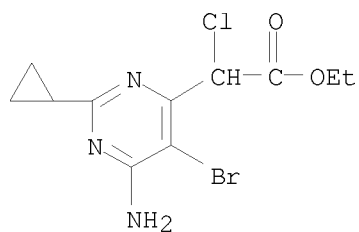


RN 858955-03-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, ethyl ester (CA INDEX NAME)

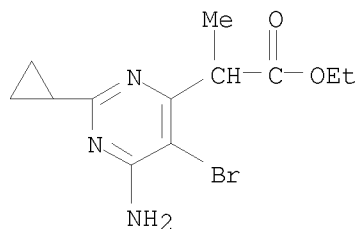


RN 858955-04-1 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo- α -chloro-2-cyclopropyl-, ethyl ester (CA INDEX NAME)

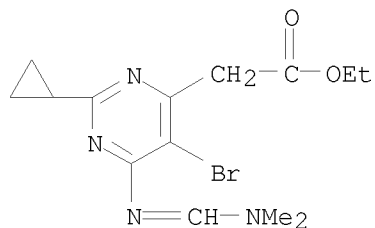
RN 858955-05-2 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl- α -methyl-, ethyl ester (CA INDEX NAME)



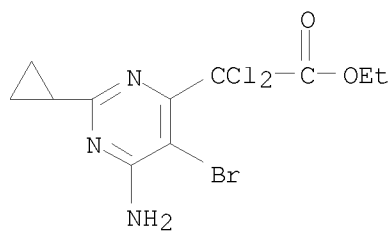
RN 858955-06-3 CAPLUS

CN 4-Pyrimidineacetic acid, 5-bromo-2-cyclopropyl-6-[[dimethylamino)methylene]amino]-, ethyl ester (CA INDEX NAME)



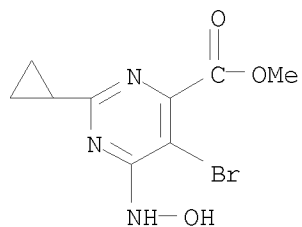
RN 858955-07-4 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo- α,α -dichloro-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



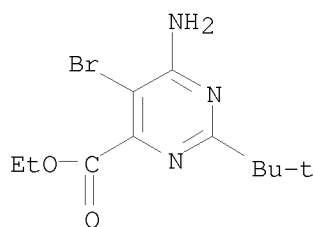
RN 858955-08-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(hydroxyamino)-, methyl ester (CA INDEX NAME)



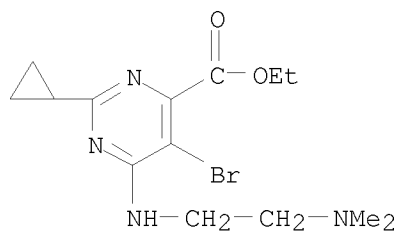
RN 858955-09-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,1-dimethylethyl)-, ethyl ester (CA INDEX NAME)



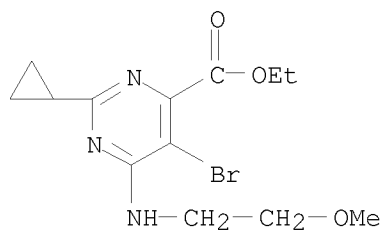
RN 858955-11-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[[2-(dimethylamino)ethyl]amino]-, ethyl ester (CA INDEX NAME)



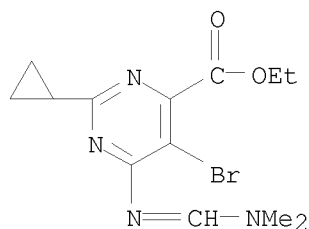
RN 858955-12-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-methoxyethyl)amino]-, ethyl ester (CA INDEX NAME)

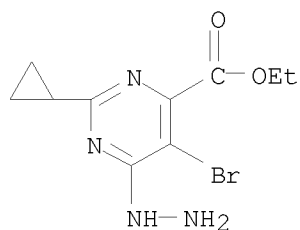


RN 858955-13-2 CAPLUS

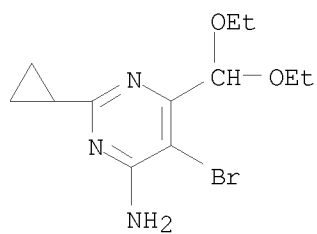
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-
[[dimethylamino)methylene]amino]-, ethyl ester (CA INDEX NAME)



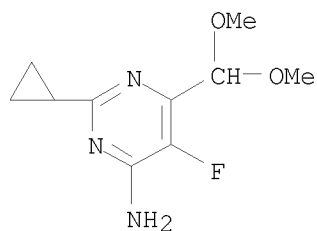
RN 858955-15-4 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-hydrazinyl-, ethyl
ester (CA INDEX NAME)



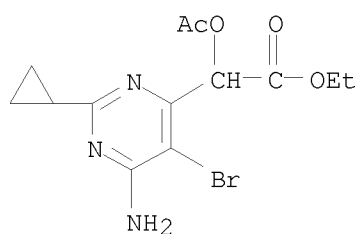
RN 858955-18-7 CAPLUS
CN 4-Pyrimidinamine, 5-bromo-2-cyclopropyl-6-(diethoxymethyl)- (CA INDEX
NAME)



RN 858955-19-8 CAPLUS
CN 4-Pyrimidinamine, 2-cyclopropyl-6-(dimethoxymethyl)-5-fluoro- (CA INDEX
NAME)

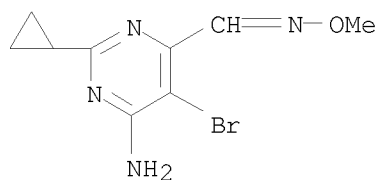


RN 858955-20-1 CAPLUS

CN 4-Pyrimidineacetic acid, α -(acetyloxy)-6-amino-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)

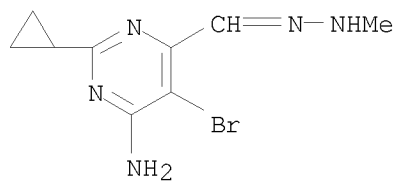
RN 858955-21-2 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl-, O-methyloxime (CA INDEX NAME)



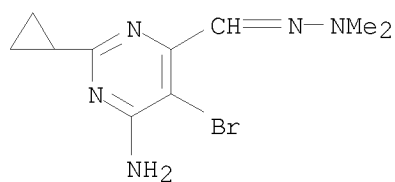
RN 858955-22-3 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl-, 2-methylhydrazone (CA INDEX NAME)



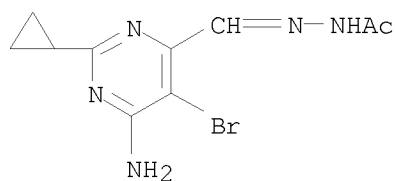
RN 858955-23-4 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl-, 2,2-dimethylhydrazone (CA INDEX NAME)



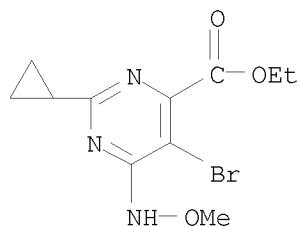
RN 858955-24-5 CAPLUS

CN Acetic acid, 2-[(6-amino-5-bromo-2-cyclopropyl-4-pyrimidinyl)methylene]hydrazide (CA INDEX NAME)



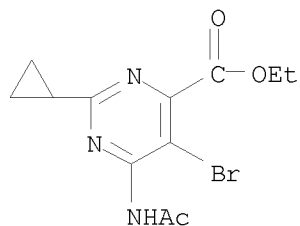
RN 858955-25-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(methoxyamino)-, ethyl ester (CA INDEX NAME)



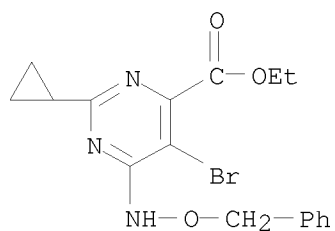
RN 858955-26-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



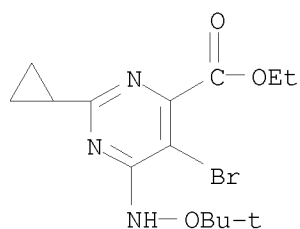
RN 858955-27-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(phenylmethoxy)amino]-, ethyl ester (CA INDEX NAME)



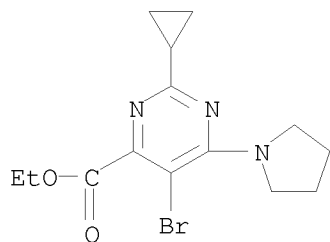
RN 858955-28-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(1,1-dimethylethoxy)amino]-, ethyl ester (CA INDEX NAME)



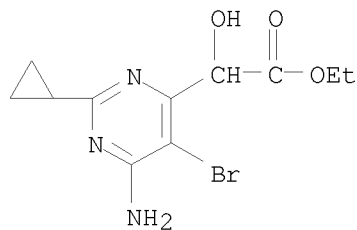
RN 858955-29-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(1-pyrrolidinyl)-, ethyl ester (CA INDEX NAME)

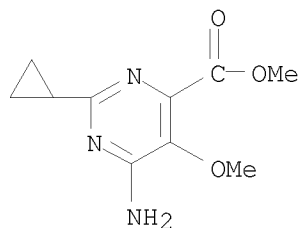


RN 858955-30-3 CAPLUS

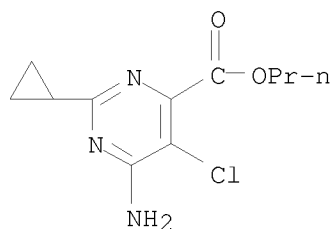
CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl- α -hydroxy-, ethyl ester (CA INDEX NAME)



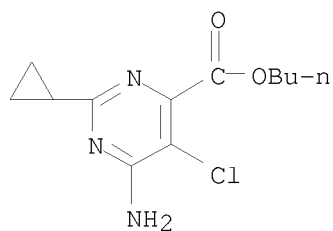
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 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-methoxy-, methyl ester (CA INDEX NAME)



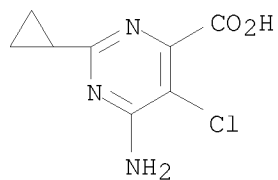
RN 858955-48-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester (CA INDEX NAME)



RN 858955-49-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester (CA INDEX NAME)

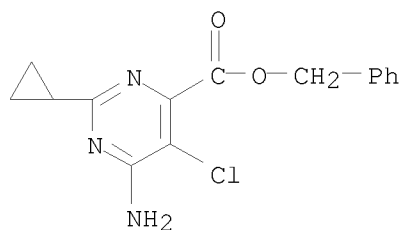


RN 858955-50-7 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, sodium salt (1:1) (CA INDEX NAME)

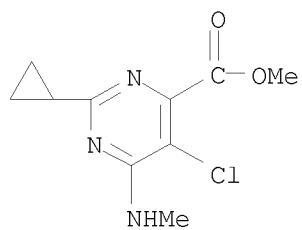


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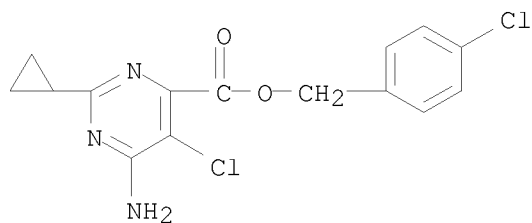
RN 858955-51-8 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



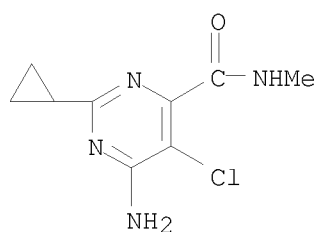
RN 858955-52-9 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(methylamino)-, methyl ester (CA INDEX NAME)



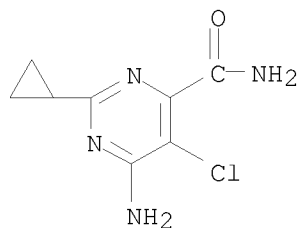
RN 858955-53-0 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, (4-chlorophenyl)methyl ester (CA INDEX NAME)



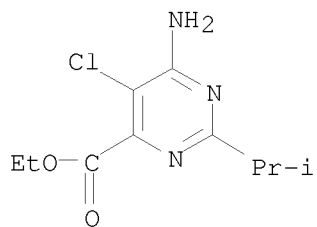
RN 858955-54-1 CAPLUS
 CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-cyclopropyl-N-methyl- (CA INDEX NAME)



RN 858955-58-5 CAPLUS
 CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



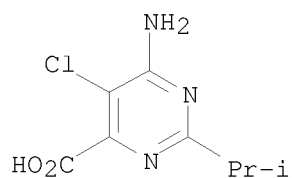
RN 858955-81-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, ethyl ester (CA INDEX NAME)



RN 858955-82-5 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, sodium

10/581,897 (amended)

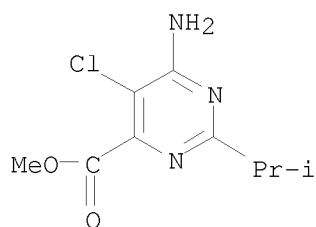
salt (1:1) (CA INDEX NAME)



● Na

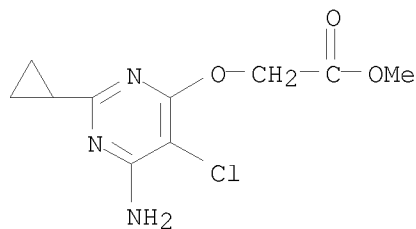
RN 858955-83-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, methyl ester (CA INDEX NAME)



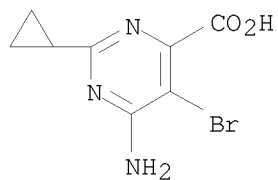
RN 858955-85-8 CAPLUS

CN Acetic acid, 2-[(6-amino-5-chloro-2-cyclopropyl-4-pyrimidinyl)oxy]-, methyl ester (CA INDEX NAME)



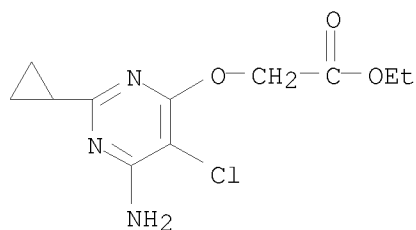
RN 858955-86-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, sodium salt (1:1) (CA INDEX NAME)

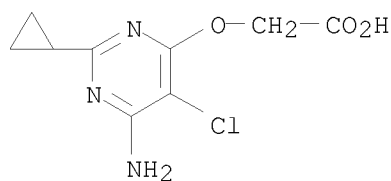


● Na

RN 858955-88-1 CAPLUS
CN Acetic acid, 2-[(6-amino-5-chloro-2-cyclopropyl-4-pyrimidinyl)oxy]-, ethyl ester (CA INDEX NAME)

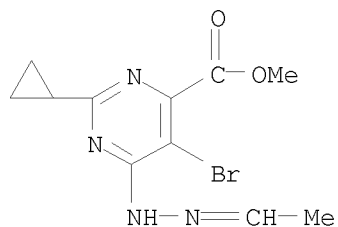


RN 858955-89-2 CAPLUS
CN Acetic acid, 2-[(6-amino-5-chloro-2-cyclopropyl-4-pyrimidinyl)oxy]-, sodium salt (1:1) (CA INDEX NAME)



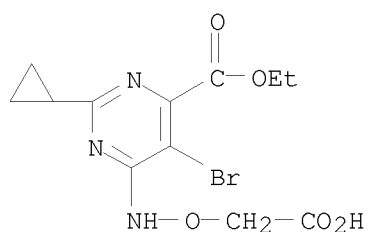
● Na

RN 858955-97-2 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(2-ethylidenehydrazinyl)-, methyl ester (CA INDEX NAME)



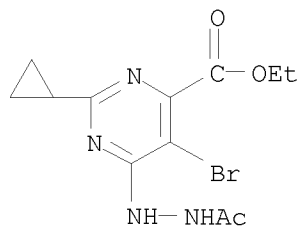
RN 858955-98-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-6-[(carboxymethoxy)amino]-2-cyclopropyl-, 4-ethyl ester (CA INDEX NAME)



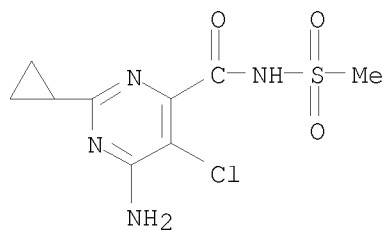
RN 858955-99-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(2-acetylhydrazinyl)-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



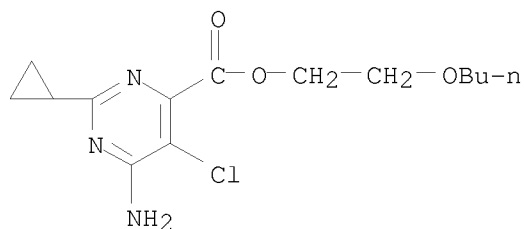
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CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-cyclopropyl-N-(methylsulfonyl)- (CA INDEX NAME)

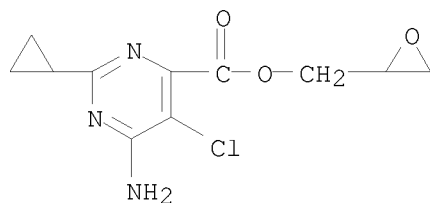


RN 858956-12-4 CAPLUS

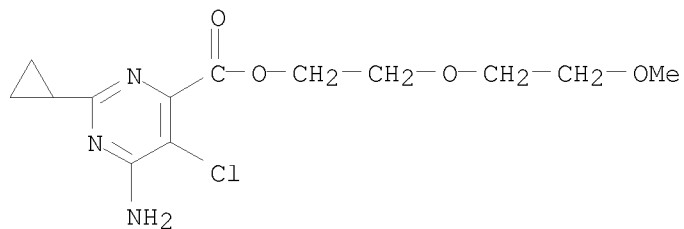
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
2-butoxyethyl ester (CA INDEX NAME)



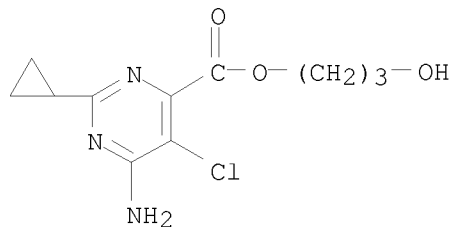
RN 858956-13-5 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
2-oxiranylmethyl ester (CA INDEX NAME)



RN 858956-14-6 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
2-(2-methoxyethoxy)ethyl ester (CA INDEX NAME)



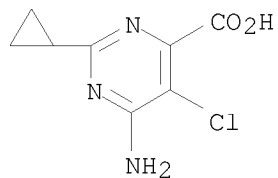
RN 858956-15-7 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
3-hydroxypropyl ester (CA INDEX NAME)



RN 858956-16-8 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with
 2-propanamine (1:1) (CA INDEX NAME)

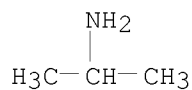
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CRN 858956-08-8
 CMF C8 H8 Cl N3 O2

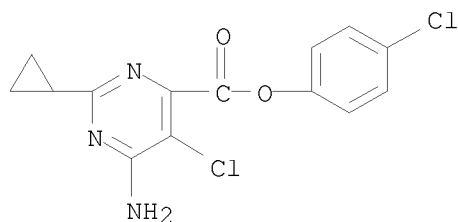


CM 2

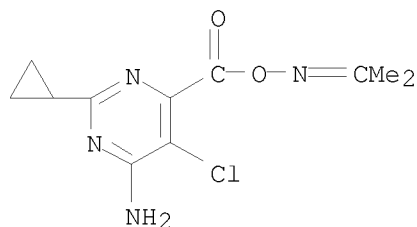
CRN 75-31-0
 CMF C3 H9 N



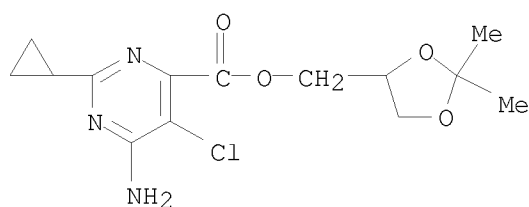
RN 858956-17-9 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 4-chlorophenyl ester (CA INDEX NAME)



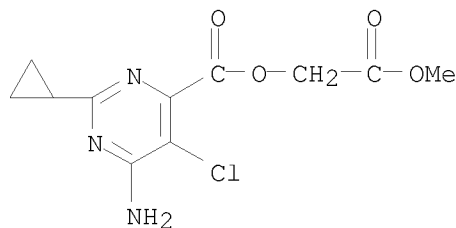
RN 858956-18-0 CAPLUS
 CN 2-Propanone, O-[(6-amino-5-chloro-2-cyclopropyl-4-pyrimidinyl)carbonyl]oxime (CA INDEX NAME)



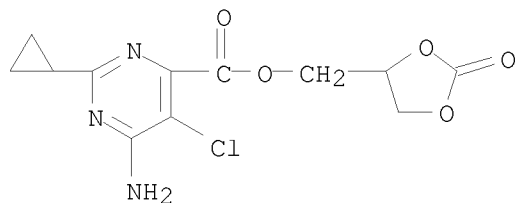
RN 858956-19-1 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 (2,2-dimethyl-1,3-dioxolan-4-yl)methyl ester (CA INDEX NAME)



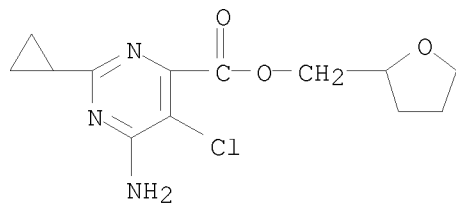
RN 858956-20-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 2-methoxy-2-oxoethyl ester (CA INDEX NAME)



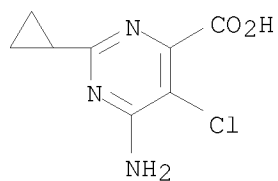
RN 858956-21-5 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 (2-oxo-1,3-dioxolan-4-yl)methyl ester (CA INDEX NAME)



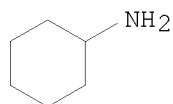
RN 858956-22-6 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,
 (tetrahydro-2-furanyl)methyl ester (CA INDEX NAME)



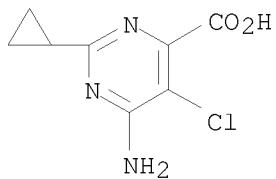
RN 858956-29-3 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with
 cyclohexanamine (1:1) (9CI) (CA INDEX NAME)
 CM 1
 CRN 858956-08-8
 CMF C8 H8 Cl N3 O2



CM 2
 CRN 108-91-8
 CMF C6 H13 N

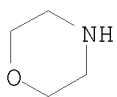


RN 858956-30-6 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with
 morpholine (1:1) (CA INDEX NAME)
 CM 1
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 CMF C8 H8 Cl N3 O2



CM 2

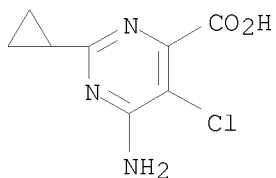
CRN 110-91-8
CMF C4 H9 N O



RN 858956-31-7 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with
2,2'-iminobis[ethanol] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 858956-08-8
CMF C8 H8 Cl N3 O2



CM 2

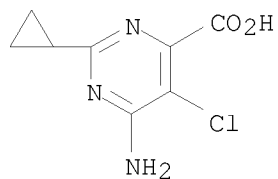
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CMF C4 H11 N O2



RN 858956-32-8 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with
N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

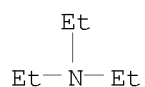
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CMF C8 H8 Cl N3 O2



CM 2

CRN 121-44-8

CMF C6 H15 N



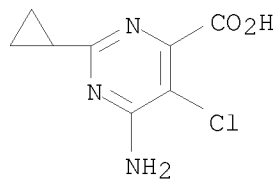
RN 858956-33-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with pyridine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 858956-08-8

CMF C8 H8 Cl N3 O2



CM 2

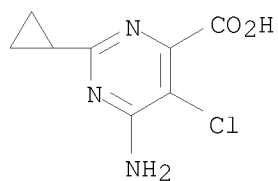
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CMF C5 H5 N



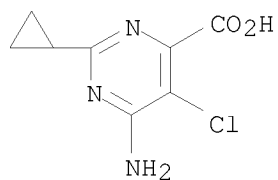
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CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, lithium salt (1:1) (CA INDEX NAME)



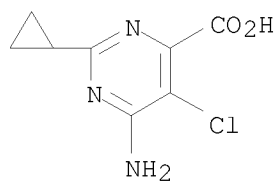
● Li

RN 858956-35-1 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, potassium salt (1:1) (CA INDEX NAME)



● K

RN 858956-36-2 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, cesium salt (1:1) (CA INDEX NAME)



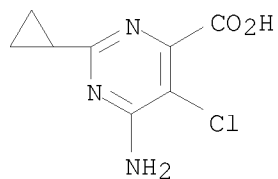
● Cs

RN 858956-40-8 CAPLUS
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with 2-aminoethanol (1:1) (CA INDEX NAME)

CM 1

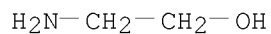
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CMF C8 H8 Cl N3 O2

10/581,897 (amended)



CM 2

CRN 141-43-5
CMF C2 H7 N O

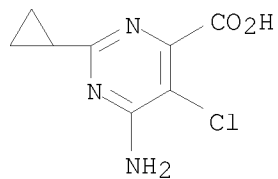


RN 858956-41-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with
2,2',2''-nitrilotris[ethanol] (1:1) (9CI) (CA INDEX NAME)

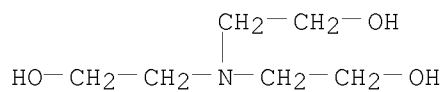
CM 1

CRN 858956-08-8
CMF C8 H8 Cl N3 O2



CM 2

CRN 102-71-6
CMF C6 H15 N O3



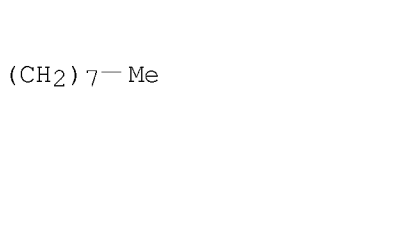
RN 858956-42-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with
N-methylmethanamine (1:1) (CA INDEX NAME)

CM 1

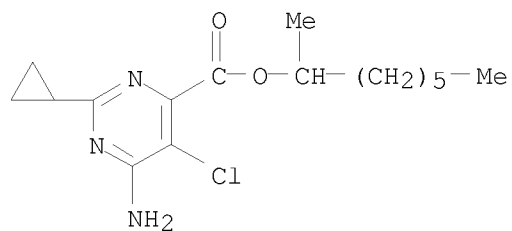
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2-cyclopropyl-, octyl ester

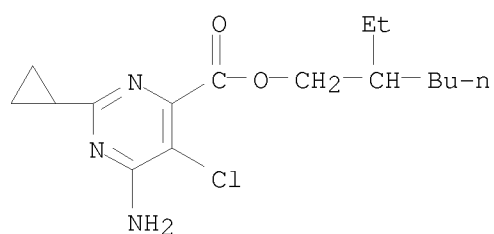


2-cyclopropyl-,

2-cyclopropyl-,



RN 858956-46-4 CAPLUS
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl ester (CA INDEX NAME)



OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 25 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2005:527534 CAPLUS

DN 143:7721

TI New bis-sulfonamides based on pyrimidine, their pharmaceutical compositions, processes for their preparation, and their use as endothelin antagonists

IN Bolli, Martin; Boss, Christoph; Clozel, Martine; Fischli, Walter

PA Actelion Pharmaceuticals Ltd., Switz.

SO Braz. Pedido PI, 95 pp.

CODEN: BPXXDX

DT Patent

LA Portuguese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	BR 2001002864	A	20030729	BR 2001-2864	20010712
PRAI	BR 2001-2864		20010712		
OS	MARPAT 143:7721				

AB Title compds. I are claimed [wherein: R1 = aryl, alkylaryl, alkenylaryl, heteroaryl, alkylheteroaryl; R2 = alkyl, CF3, alkoxyalkyl, alkenyl, alkynyl, aryl, arylalkyl, arylalkenyl, heterocyclyl, heterocyclylalkyl, heteroaryl, heteroarylalkyl, cycloalkyl, cycloalkylalkyl; R3 = Ph (or Ph mono-, di-, or trisubstituted by alkyl, alkenyl alkynyl, alkoxy, amino, alkylamino, aminoalkyl, CF3, CF3O, halo, alkylthio, OH, hydroxyalkyl, cyano, CO2H, alkanoyl, or CHO), benzofuranyl, aryl, or heteroaryl; R4 = H, halo, CF3, alkyl, aminoalkyl, alkoxy, alkylsulfonyl, alkylsulfinyl, alkylthio, alkylthioalkyl, hydroxyalkyl, amino, dialkylamino, aryl, arylamino, arylthio, heteroaryl, cycloalkyl, heterocyclyl, etc.; R6 = H, alkyl, cycloalkyl, heterocyclyl, heteroaryl, aryl, alkylcycloalkyl, alkylheterocyclyl, alkylheteroaryl, alkylaryl, alkoxyalkyl, alkylthioalkyl, alkylaminoalkyl, alkenyl, alkynyl; n = 2, 3, 4, or 5; X = O, S, NH, CH2, or bond; including diastereomers or their mixts., mixts. of diastereomeric racemates, meso forms, and/or pharmaceutically acceptable salts]. Examples include 94 syntheses and several bioassays. For instance, invention compound II was prepared by etherification of HOCH2CH2NHSO2Pr-iso with the corresponding chloropyrimidine derivative in THF in the presence of KOBu-tert. In a test for inhibition of binding of endothelin to human recombinant ETA and ETB receptors, invention compound III had IC50 values of 14.8 and 1.86 nM, resp. In another test for inhibition of endothelin-induced contractions of isolated rings of rat aorta (ETA) and rat trachea (ETB), II had pA2 values of 6.73 and 5.9, whereas III had values of 6.16 and 7.95, showing reversed selectivity. Claims cover pharmaceutical compns. for treatment of (a) circulatory disorders such as hypertension, ischemia, vasospasm, and angina pectoris, as well as proliferative disorders such as cancer, or (b) other endothelin-related disorders such as migraine, asthma, or inflammatory disorders. Claims cover compds. which block both ETA and ETB, as well as those which are selective for either one.

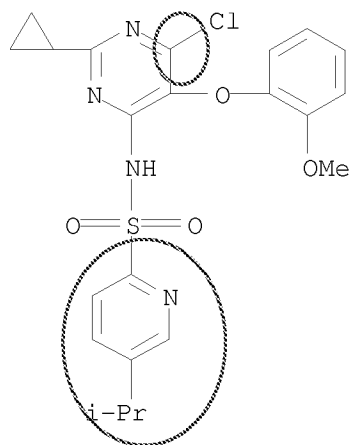
IT 329924-30-3P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate; preparation of pyrimidine bissulfonamides as endothelin antagonists)

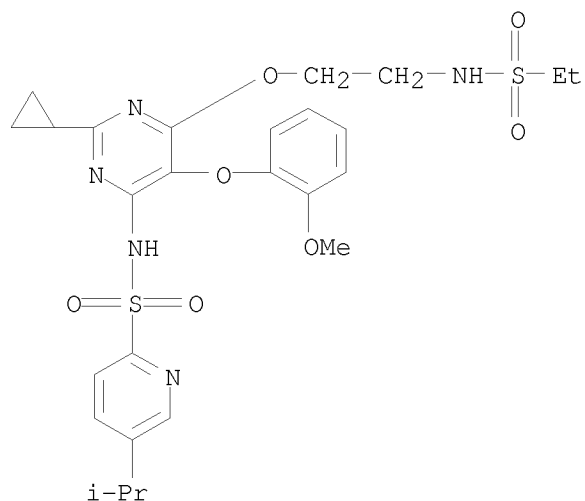
RN 329924-30-3 CAPLUS

CN 2-Pyridinesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



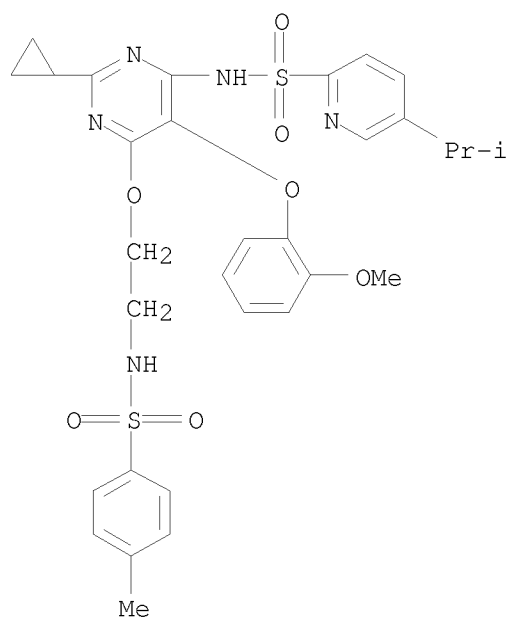
multiple structural differences

IT 329924-34-7P 329924-36-9P 329924-41-6P
 329924-43-8P, 4-tert-Butyl-N-[6-[2-[(4-methylbenzenesulfonyl)amino]ethoxy]-5-(o-methoxyphenoxy)-2-cyclopropylpyrimidin-4-yl]benzenesulfonamide 329924-54-1P,
 4-tert-Butyl-N-[6-[2-[(ethanesulfonyl)amino]ethoxy]-5-(o-methoxyphenoxy)-2-cyclopropylpyrimidin-4-yl]benzenesulfonamide 329925-16-8P,
 p-tert-Butyl-N-[6-[3-(ethanesulfonylamino)propoxy]-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]benzenesulfonamide 329925-17-9P
 329925-20-4P, 5-Isopropyl-N-[6-[2-(1-propanesulfonylamino)ethoxy]-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]pyridine-2-sulfonamide
 329925-21-5P, 5-Isopropyl-N-[6-[2-(2-thiophenesulfonylamino)ethoxy]-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]pyridine-2-sulfonamide 329925-22-6P,
 5-Isopropyl-N-[6-[2-(2-propanesulfonylamino)ethoxy]-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]pyridine-2-sulfonamide 329925-27-1P,
 5-Isopropyl-N-[6-[3-[(ethanesulfonyl)amino]propoxy]-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]pyridine-2-sulfonamide 329925-28-2P
 329925-29-3P 329925-30-6P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (drug candidate; preparation of pyrimidine bissulfonamides as endothelin antagonists)
 RN 329924-34-7 CAPLUS
 CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



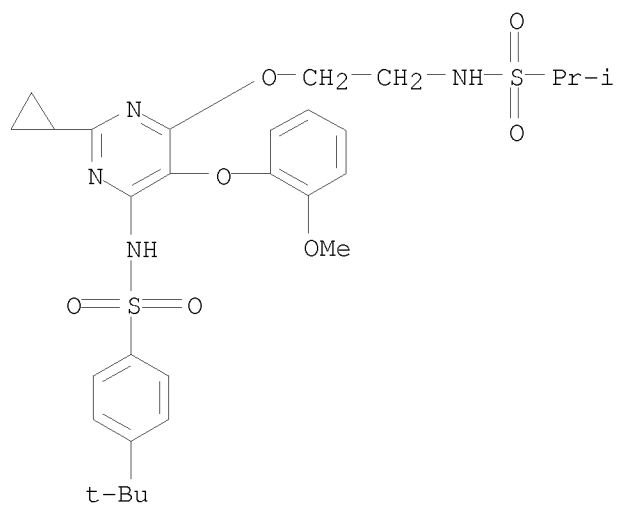
RN 329924-36-9 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(4-methylphenyl)sulfonyl]amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



RN 329924-41-6 CAPLUS

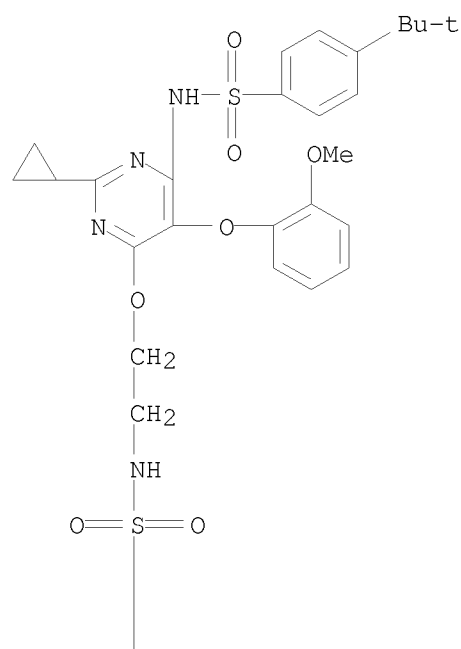
CN Benzenesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(1-methylethyl)sulfonyl]amino]ethoxy]-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)

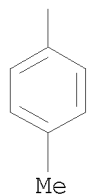


RN 329924-43-8 CAPLUS

CN Benzenesulfonamide, N-[2-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl]-4-methyl- (CA INDEX NAME)

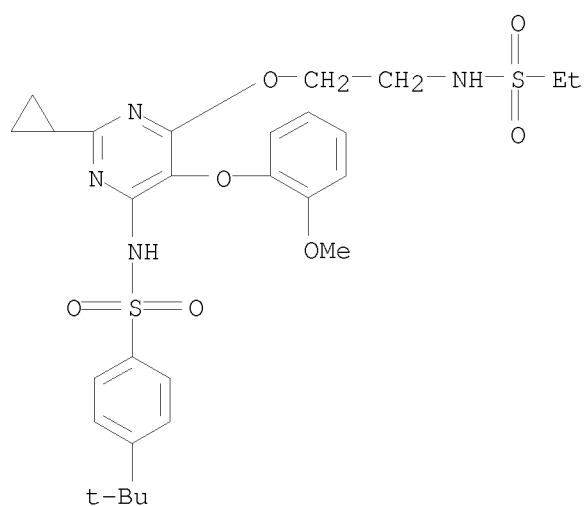
PAGE 1-A





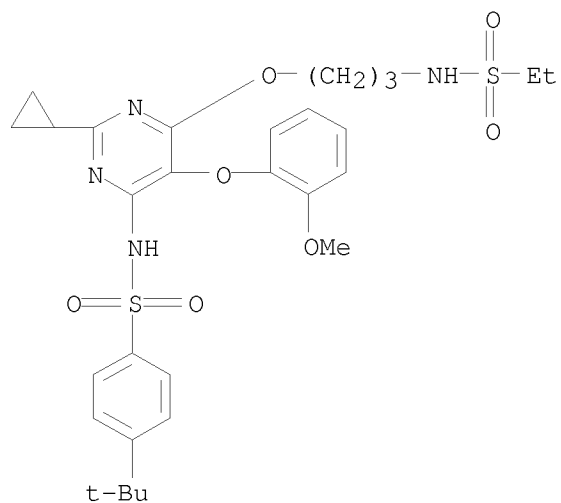
RN 329924-54-1 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



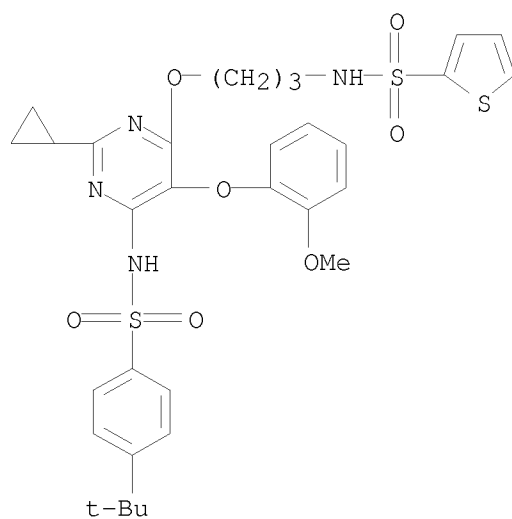
RN 329925-16-8 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-[3-[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



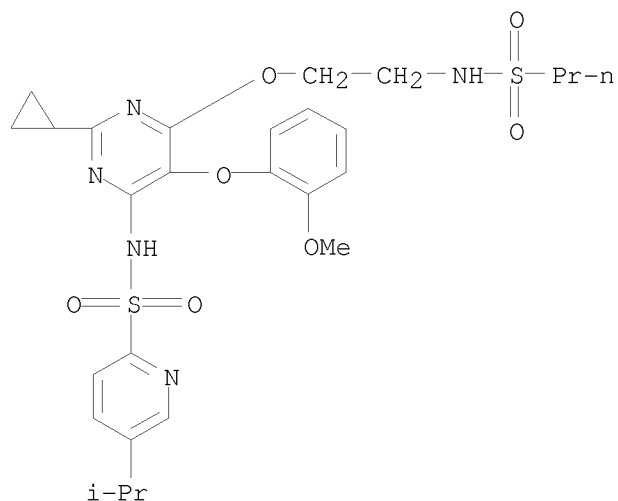
RN 329925-17-9 CAPLUS

CN 2-Thiophenesulfonamide, N-[3-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]propyl]- (CA INDEX NAME)



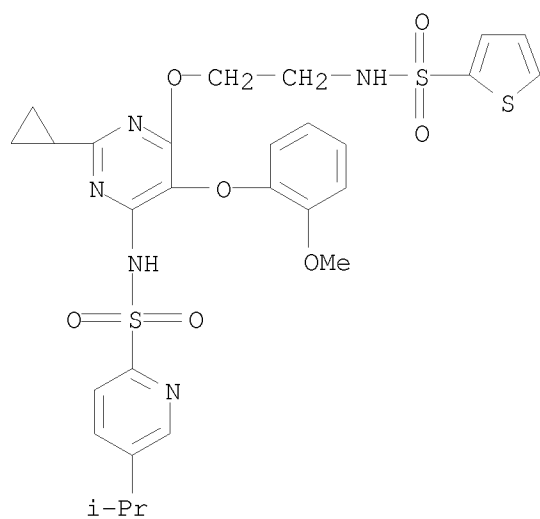
RN 329925-20-4 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(propylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



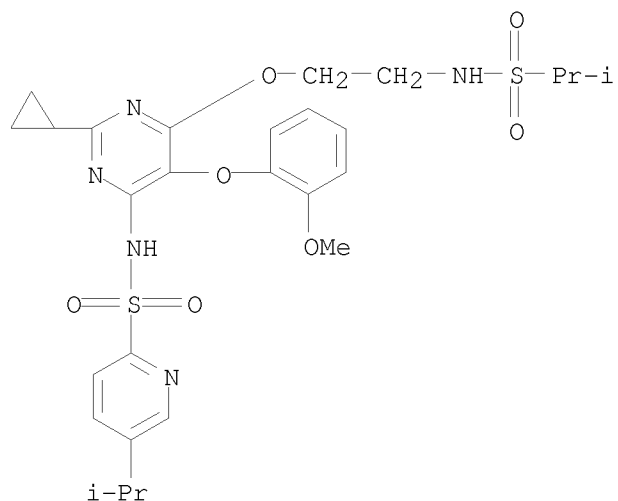
RN 329925-21-5 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(2-thienylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



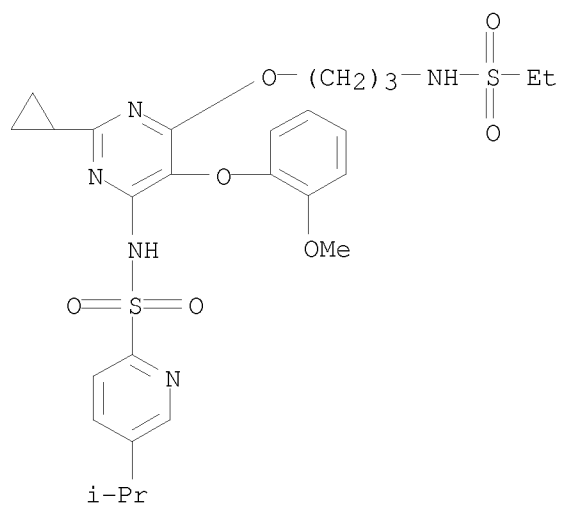
RN 329925-22-6 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(1-methylethyl)sulfonyl]amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



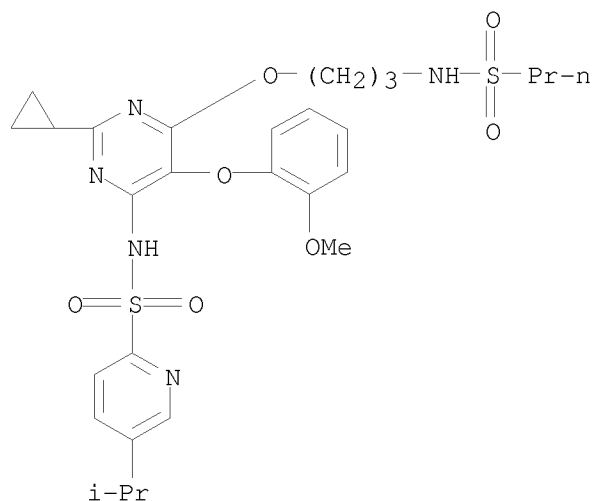
RN 329925-27-1 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[3-
[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-
methylethyl)- (CA INDEX NAME)



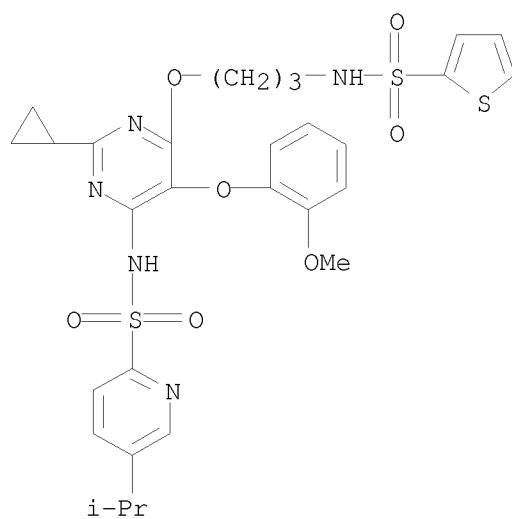
RN 329925-28-2 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-
[(propylsulfonyl)amino]propoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA
INDEX NAME)



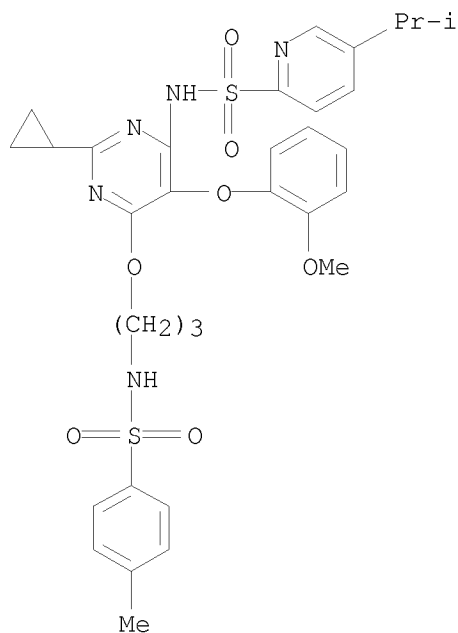
RN 329925-29-3 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(2-thienylsulfonyl)amino]propoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)

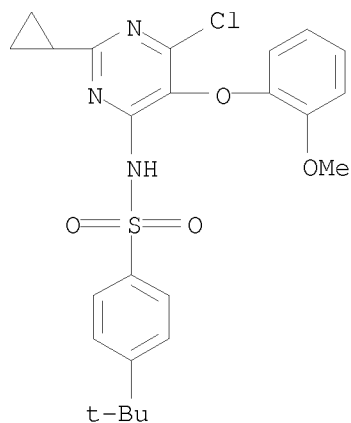


RN 329925-30-6 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(4-methylphenyl)sulfonyl]amino]propoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)

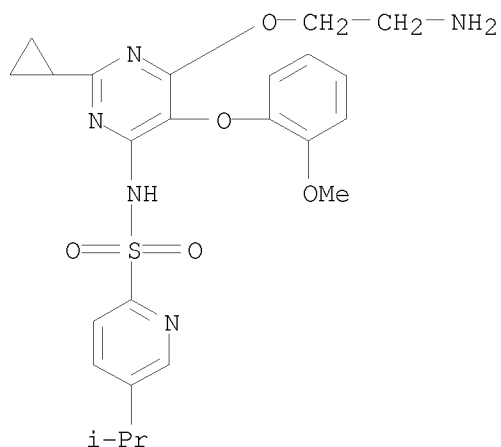


IT 150727-73-4P, 4-tert-Butyl-N-[6-chloro-5-(o-methoxyphenoxy)-2-cyclopropylpyrimidin-4-yl]benzenesulfonamide 329924-32-5P
 329924-39-2P, 4-tert-Butyl-N-[6-(2-aminoethoxy)-5-(o-methoxyphenoxy)-2-cyclopropylpyrimidin-4-yl]benzenesulfonamide
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of pyrimidine bissulfonamides as endothelin antagonists)
 RN 150727-73-4 CAPLUS
 CN Benzenesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



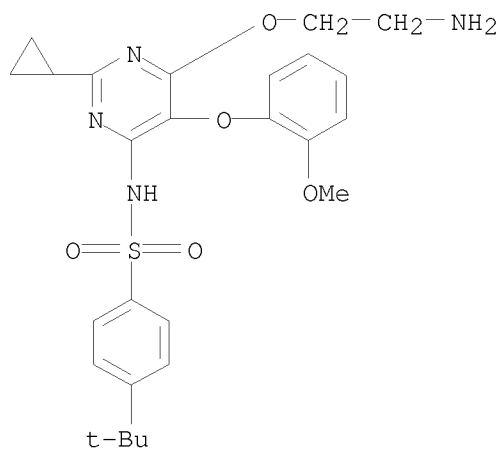
RN 329924-32-5 CAPLUS
 CN 2-Pyridinesulfonamide, N-[6-(2-aminoethoxy)-2-cyclopropyl-5-(2-

methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



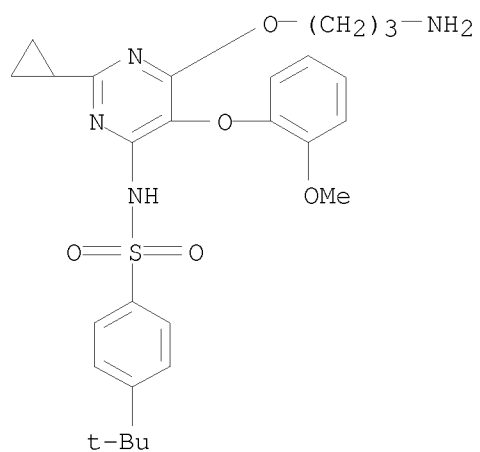
RN 329924-39-2 CAPLUS

CN Benzenesulfonamide, N-[6-(2-aminoethoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)

IT 329925-15-7 329925-26-0,
5-Isopropyl-N-[6-(3-aminopropoxy)-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]pyridine-2-sulfonamideRL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; preparation of pyrimidine bissulfonamides as endothelin antagonists)

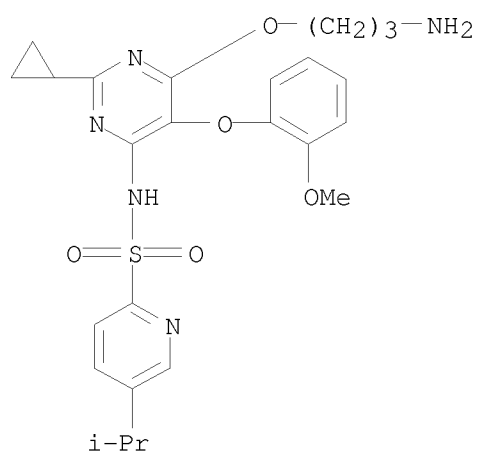
RN 329925-15-7 CAPLUS

CN Benzenesulfonamide, N-[6-(3-aminopropoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



RN 329925-26-0 CAPLUS

CN 2-Pyridinesulfonamide, N-[6-(3-aminopropoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



L10 ANSWER 26 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2005:451376 CAPLUS

DN 142:482069

TI Preparation of quinoxazolines and related derivatives vanilloid-1 receptor antagonists for treating pain

IN Hollingworth, Gregory John; Jones, Brian A.; McIver, Edward Giles; Moyes, Christopher Richard; Rogers, Lauren

PA Merck Sharp & Dohme Limited, UK

SO PCT Int. Appl., 108 pp.

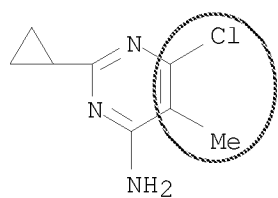
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005047279	A1	20050526	WO 2004-GB4719	20041109
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004289518	A1	20050526	AU 2004-289518	20041109
	CA 2545384	A1	20050526	CA 2004-2545384	20041109
	US 20050197342	A1	20050908	US 2004-984336	20041109
	EP 1685124	A1	20060802	EP 2004-798442	20041109
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
	JP 2007510706	T	20070426	JP 2006-538935	20041109
	CN 101035780	A	20070912	CN 2004-80039870	20041109
	IN 2006DN02615	A	20070824	IN 2006-DN2615	20060510
PRAI	GB 2003-26217	A	20031110		
	GB 2004-7748	A	20040405		
	US 2004-617134P	P	20041008		
	WO 2004-GB4719	W	20041109		
OS	CASREACT 142:482069; MARPAT 142:482069				
AB	Title compds. Y-J-L-Z [L = amino, O, S, CH ₂ ; J = 6-membered heterocycle, etc.; Y = naphthalene, etc.; Z = Ph, naphthyl, etc.; I] are prepared For instance, 4-(Quinolin-8-yl)-N-(4-trifluoromethylphenyl)pyrimidin-2-amine is prepared from 2-Chloro-4-(quinolin-8-yl)pyrimidine (preparation given) and 4-trifluoromethylaniline. I are vanilloid-1 receptor antagonists [no data] useful for the treatment of pain, cough, GERD and depression.				
IT	852061-78-0P, 6-Chloro-2-cyclopropyl-5-methylpyrimidin-4-amine RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of quinoxazolines and related derivs. vanilloid-1 receptor antagonists for treating pain)				
RN	852061-78-0 CAPLUS				
CN	4-Pyrimidinamine, 6-chloro-2-cyclopropyl-5-methyl- (CA INDEX NAME)				

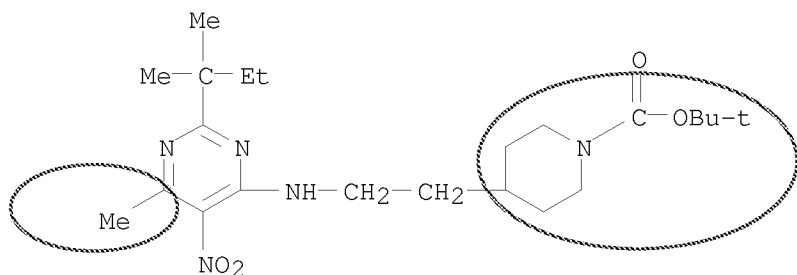


1. position of chloro substituent
2. methyl does not fit the
description of herbicidally
effective derivative of COOH

OSC.G	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
RE.CNT	2	THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 27 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2004:631750 CAPLUS
 DN 141:157129
 TI Preparation of 9H-purines as inhibitors of TNF- α and
 phosphodiesterase IV
 IN Sakaguchi, Osamu; Takeshita, Makoto; Izumi, Tomoyuki
 PA Dainabot Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 78 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004217582	A	20040805	JP 2003-8019	20030116
PRAI	JP 2003-8019		20030116		
OS	MARPAT 141:157129				
AB	9H-purines I [R1 = H, OH, (un)substituted (cyclo)alkyl, (un)substituted aryl; R2 = H, (un)substituted alkyl; R3 = H, halo, (un)substituted (cyclo)alkoxy, (un)substituted aralkyloxy, etc.; R4 = H, alkyl, PhCH2, Ac; m = 0-3; X = CH, N; R5 = H, (un)substituted alkyl; R6 = H, (un)substituted (cyclo)alkyl, (un)substituted aralkyl, etc.] or their salts, useful for treatment of rheumatic arthritis, atopic dermatitis, asthma, autoimmune disease, diabetes, tumor, etc., are prepared Thus, I.1.5 fumarate (R1 = Ph, R2 = Me, R3 = NHCMe3, R4 = H, m = 2, X = CH) inhibited formation of human TNF- α with IC50 value of 33 nM.				
IT	728935-65-7P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of purines as inhibitors of TNF- α and phosphodiesterase IV for treatment of diseases)				
RN	728935-65-7 CAPLUS				
CN	1-Piperidinecarboxylic acid, 4-[2-[[2-(1,1-dimethylpropyl)-6-methyl-5-nitro-4-pyrimidinyl]amino]ethyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)				



OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

L10 ANSWER 28 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2003:837052 CAPLUS
 DN 139:337980
 TI Preparation of aminopyrimidines with muscarinic M3 antagonist and PDE IV
 inhibiting activity
 IN Provins, Laurent; Van Keulen, Berend Jan; Surtees, John; Talaga, Patrice;
 Christophe, Bernard
 PA UCB, S.A., Belg.
 SO PCT Int. Appl., 71 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003087064	A1	20031023	WO 2003-EP3299	20030329
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003222786	A1	20031027	AU 2003-222786	20030329
	EP 1499598	A1	20050126	EP 2003-718717	20030329
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 20060074068	A1	20060406	US 2005-511660	20051005
	US 7544675	B2	20090609		
PRAI	EP 2002-8706	A	20020418		
	WO 2003-EP3299	W	20030329		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 139:337980

AB Aminopyrimidines I [R = NHR₂, (un)substituted azetidiny], R₁ = alkyl, cycloalkyl; R₂ = cycloalkyl; R₃ = H, alkyl, halogen, OH, alkoxy, amino; R₂R₃ = alkylene; R₄ = H, alkyl; R₅ = cycloalkyl, aralkyl, heterocyclylalkyl; NR₄R₅ = heterocyclic], combining affinity and antagonism against the human M₃ muscarinic receptor with activity as selective phosphodiesterase IV (PDE IV) inhibitors, were prepared Thus, the amine II was prepared from 6-chloro-N,2-dicyclopropyl-5-nitropyrimidin-4-amine by reaction with hexamethylenimine and reduction of the nitro group.

IT 617717-01-8P 617717-03-0P 617717-04-1P

617717-06-3P 617718-04-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aminopyrimidines with muscarinic M₃ antagonist and PDE IV inhibiting activity)

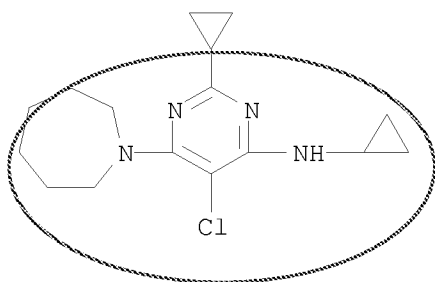
RN 617717-01-8 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-N,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-, (2Z)-2-butenedioate (1:1) (CA INDEX NAME)

CM 1

10/581,897 (amended)

CRN 617717-00-7
CMF C16 H23 Cl N4

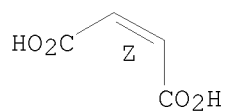


no matching substituent for R2

CM 2

CRN 110-16-7
CMF C4 H4 O4

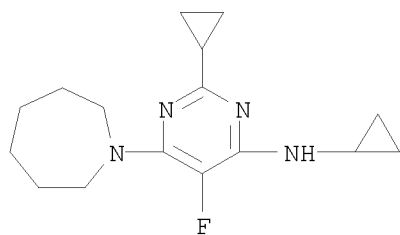
Double bond geometry as shown.



RN 617717-03-0 CAPLUS
CN 4-Pyrimidinamine, N,2-dicyclopropyl-5-fluoro-6-(hexahydro-1H-azepin-1-yl)-
, (2Z)-2-butenedioate (1:1) (CA INDEX NAME)

CM 1

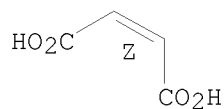
CRN 617717-02-9
CMF C16 H23 F N4



CM 2

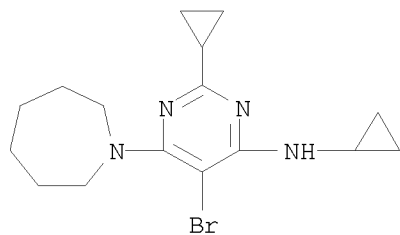
CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



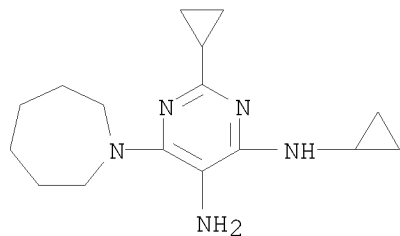
RN 617717-04-1 CAPLUS

CN 4-Pyrimidinamine, 5-bromo-N,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-
(CA INDEX NAME)



RN 617717-06-3 CAPLUS

CN 4,5-Pyrimidinediamine, N,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-
(CA INDEX NAME)



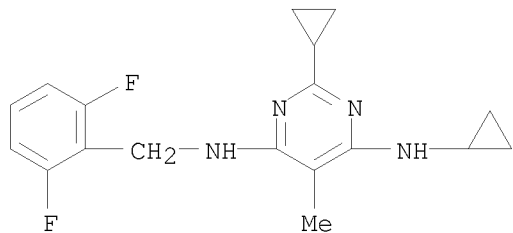
RN 617718-04-4 CAPLUS

CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-N'-[(2,6-difluorophenyl)methyl]-5-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 617718-03-3

CMF C18 H20 F2 N4

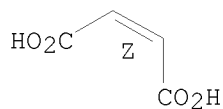


CM 2

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



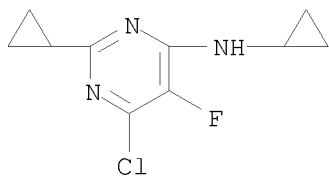
IT 617716-47-9P 617716-51-5P 617716-53-7P
 617716-55-9P 617716-57-1P 617716-65-1P
 617716-67-3P 617716-71-9P 617716-72-0P
 617716-74-2P 617718-42-0P 617718-43-1P
 617718-44-2P 617718-48-6P 617718-50-0P
 617718-52-2P 617718-53-3P 617718-54-4P
 617718-55-5P 617718-93-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(preparation of aminopyrimidines with muscarinic M3 antagonist and PDE IV
 inhibiting activity)

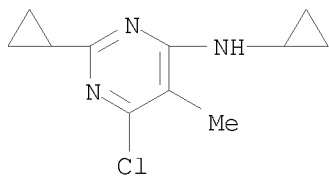
RN 617716-47-9 CAPLUS

CN 4-Pyrimidinamine, 6-chloro-N,2-dicyclopropyl-5-fluoro- (CA INDEX NAME)



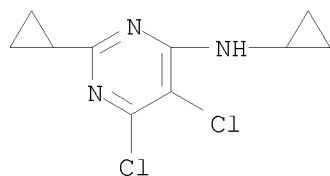
RN 617716-51-5 CAPLUS

CN 4-Pyrimidinamine, 6-chloro-N,2-dicyclopropyl-5-methyl- (CA INDEX NAME)

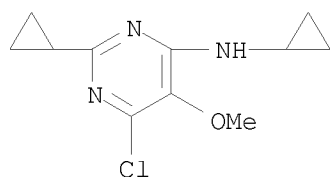


RN 617716-53-7 CAPLUS

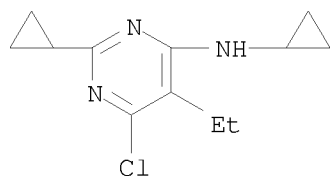
CN 4-Pyrimidinamine, 5,6-dichloro-N,2-dicyclopropyl- (CA INDEX NAME)



RN 617716-55-9 CAPLUS
CN 4-Pyrimidinamine, 6-chloro-N,2-dicyclopropyl-5-methoxy- (CA INDEX NAME)

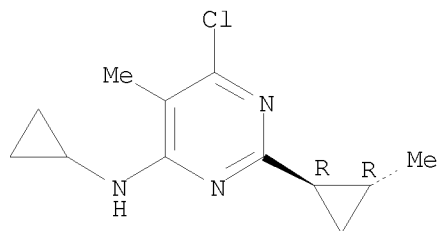


RN 617716-57-1 CAPLUS
CN 4-Pyrimidinamine, 6-chloro-N,2-dicyclopropyl-5-ethyl- (CA INDEX NAME)



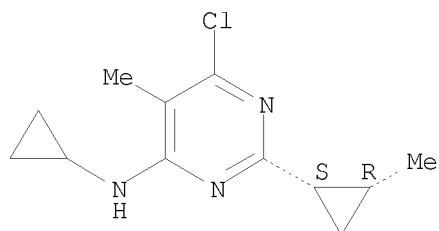
RN 617716-65-1 CAPLUS
CN 4-Pyrimidinamine, 6-chloro-N-cyclopropyl-5-methyl-2-[(1R,2R)-2-methylcyclopropyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.



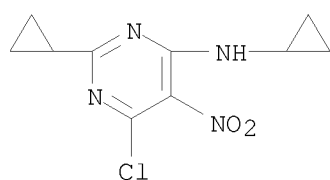
RN 617716-67-3 CAPLUS
CN 4-Pyrimidinamine, 6-chloro-N-cyclopropyl-5-methyl-2-[(1R,2S)-2-methylcyclopropyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.



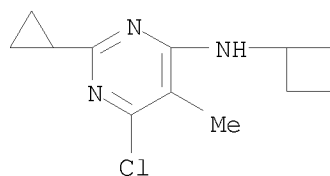
RN 617716-71-9 CAPLUS

CN 4-Pyrimidinamine, 6-chloro-N,2-dicyclopropyl-5-nitro- (CA INDEX NAME)



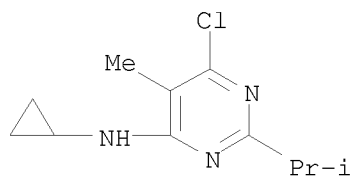
RN 617716-72-0 CAPLUS

CN 4-Pyrimidinamine, 6-chloro-N-cyclobutyl-2-cyclopropyl-5-methyl- (CA INDEX NAME)



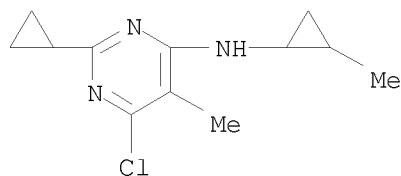
RN 617716-74-2 CAPLUS

CN 4-Pyrimidinamine, 6-chloro-N-cyclopropyl-5-methyl-2-(1-methylethyl)- (CA INDEX NAME)



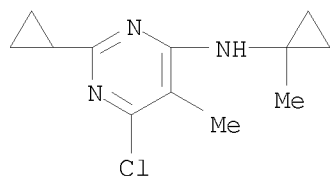
RN 617718-42-0 CAPLUS

CN 4-Pyrimidinamine, 6-chloro-2-cyclopropyl-5-methyl-N-(2-methylcyclopropyl)- (CA INDEX NAME)



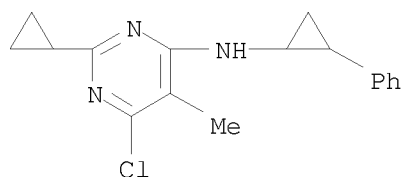
RN 617718-43-1 CAPLUS

CN 4-Pyrimidinamine, 6-chloro-2-cyclopropyl-5-methyl-N-(1-methylcyclopropyl)-
(CA INDEX NAME)



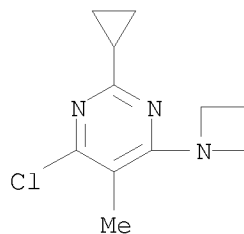
RN 617718-44-2 CAPLUS

CN 4-Pyrimidinamine, 6-chloro-2-cyclopropyl-5-methyl-N-(2-phenylcyclopropyl)-
(CA INDEX NAME)



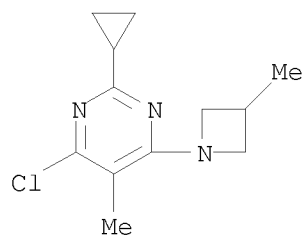
RN 617718-48-6 CAPLUS

CN Pyrimidine, 4-(1-azetidinyl)-6-chloro-2-cyclopropyl-5-methyl- (CA INDEX
NAME)

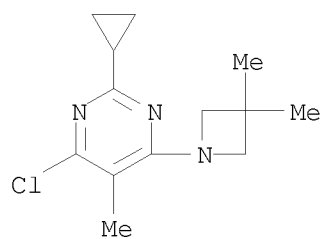


RN 617718-50-0 CAPLUS

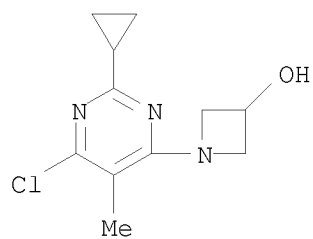
CN Pyrimidine, 4-chloro-2-cyclopropyl-5-methyl-6-(3-methyl-1-azetidinyl)-
(CA INDEX NAME)



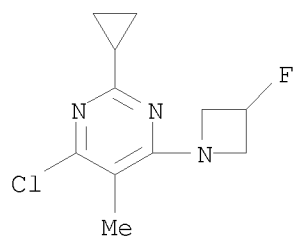
RN 617718-52-2 CAPLUS
 CN Pyrimidine, 4-chloro-2-cyclopropyl-6-(3,3-dimethyl-1-azetidiny1)-5-methyl-
 (CA INDEX NAME)



RN 617718-53-3 CAPLUS
 CN 3-Azetidinol, 1-(6-chloro-2-cyclopropyl-5-methyl-4-pyrimidinyl)- (CA
 INDEX NAME)

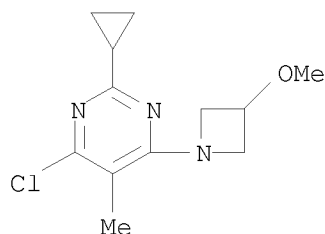


RN 617718-54-4 CAPLUS
 CN Pyrimidine, 4-chloro-2-cyclopropyl-6-(3-fluoro-1-azetidiny1)-5-methyl-
 (CA INDEX NAME)



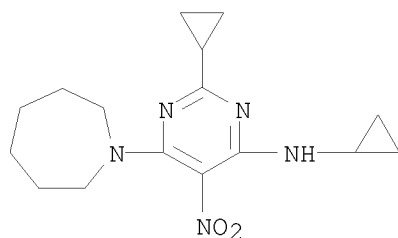
RN 617718-55-5 CAPLUS

CN Pyrimidine, 4-chloro-2-cyclopropyl-6-(3-methoxy-1-azetidiny)-5-methyl-
(CA INDEX NAME)



RN 617718-93-1 CAPLUS

CN 4-Pyrimidinamine, N,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-5-nitro-
(CA INDEX NAME)



IT	617717-17-6P	617717-45-0P	617717-53-0P
	617717-67-6P	617717-69-8P	617717-71-2P
	617717-73-4P	617717-81-4P	617717-87-0P
	617717-89-2P	617717-97-2P	617717-99-4P
	617718-02-2P	617718-06-6P	617718-09-9P
	617718-11-3P	617718-19-1P	617718-33-9P
	617718-67-9P	617718-68-0P	

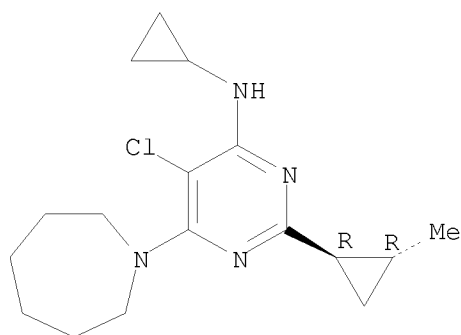
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aminopyrimidines with muscarinic M3 antagonist and PDE IV inhibiting activity)

RN 617717-17-6 CAPLUS

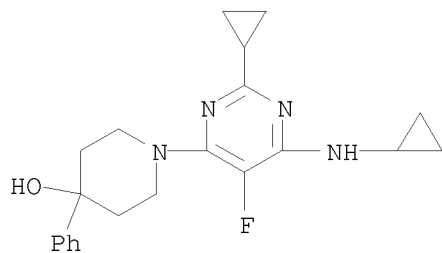
CN 4-Pyrimidinamine, 5-chloro-N-cyclopropyl-6-(hexahydro-1H-azepin-1-yl)-2-
[(1R,2R)-2-methylcyclopropyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.



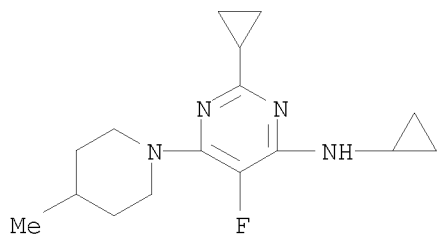
RN 617717-45-0 CAPLUS

CN 4-Piperidinol, 1-[2-cyclopropyl-6-(cyclopropylamino)-5-fluoro-4-pyrimidinyl]-4-phenyl- (CA INDEX NAME)



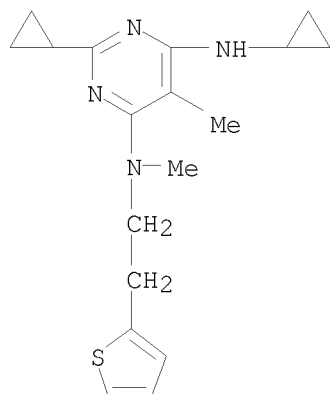
RN 617717-53-0 CAPLUS

CN 4-Pyrimidinamine, N,2-dicyclopropyl-5-fluoro-6-(4-methyl-1-piperidinyl)- (CA INDEX NAME)

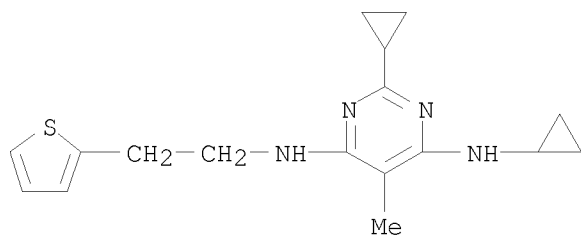


RN 617717-67-6 CAPLUS

CN 4,6-Pyrimidinediamine, N6,2-dicyclopropyl-N4,5-dimethyl-N4-[2-(2-thienyl)ethyl]- (CA INDEX NAME)

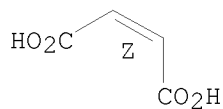


RN 617717-69-8 CAPLUS
 CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-5-methyl-N'-[2-(2-thienyl)ethyl]-
 , (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)
 CM 1
 CRN 617717-68-7
 CMF C17 H22 N4 S



CM 2
 CRN 110-16-7
 CMF C4 H4 O4

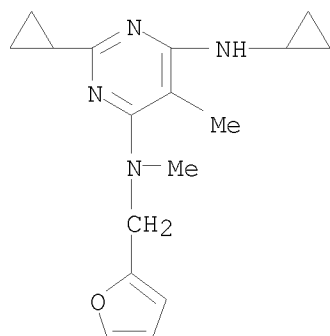
Double bond geometry as shown.



RN 617717-71-2 CAPLUS
 CN 4,6-Pyrimidinediamine, N',2-dicyclopropyl-N-(2-furanylmethyl)-N,5-dimethyl-
 , (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)
 CM 1

10/581,897 (amended)

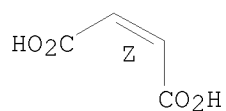
CRN 617717-70-1
CMF C17 H22 N4 O



CM 2

CRN 110-16-7
CMF C4 H4 O4

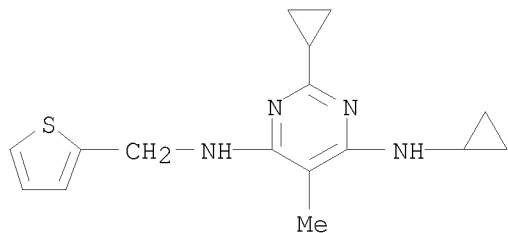
Double bond geometry as shown.



RN 617717-73-4 CAPLUS
CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-5-methyl-N'-(2-thienylmethyl)-,
(2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

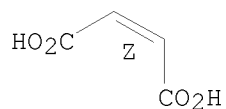
CRN 617717-72-3
CMF C16 H20 N4 S



CM 2

CRN 110-16-7
CMF C4 H4 O4

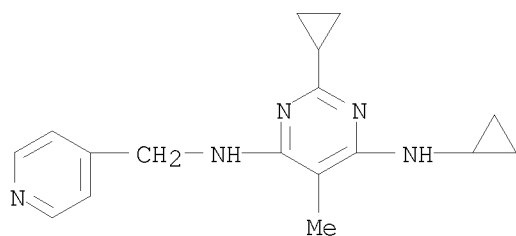
Double bond geometry as shown.



RN 617717-81-4 CAPLUS
 CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-5-methyl-N'-(4-pyridinylmethyl)-,
 (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

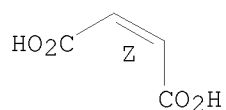
CRN 617717-80-3
 CMF C17 H21 N5



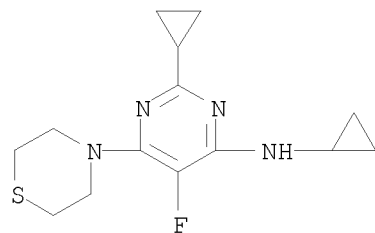
CM 2

CRN 110-16-7
 CMF C4 H4 O4

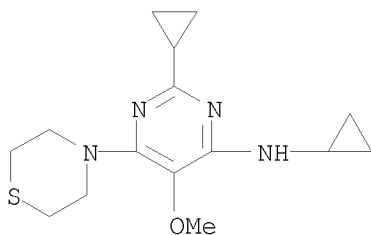
Double bond geometry as shown.



RN 617717-87-0 CAPLUS
 CN 4-Pyrimidinamine, N,2-dicyclopropyl-5-fluoro-6-(4-thiomorpholinyl)- (CA
 INDEX NAME)



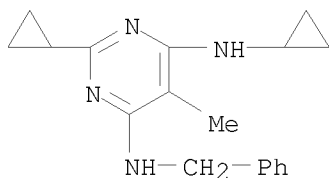
RN 617717-89-2 CAPLUS
 CN 4-Pyrimidinamine, N,2-dicyclopropyl-5-methoxy-6-(4-thiomorpholinyl)- (CA INDEX NAME)



RN 617717-97-2 CAPLUS
 CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-5-methyl-N'-(phenylmethyl)-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

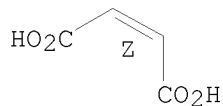
CRN 617717-96-1
 CMF C18 H22 N4



CM 2

CRN 110-16-7
 CMF C4 H4 O4

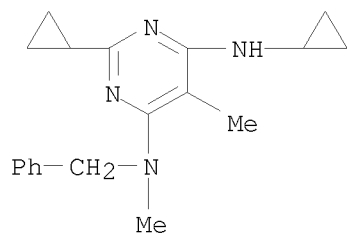
Double bond geometry as shown.



RN 617717-99-4 CAPLUS
 CN 4,6-Pyrimidinediamine, N',2-dicyclopropyl-N,5-dimethyl-N-(phenylmethyl)-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 617717-98-3
 CMF C19 H24 N4

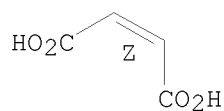


CM 2

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



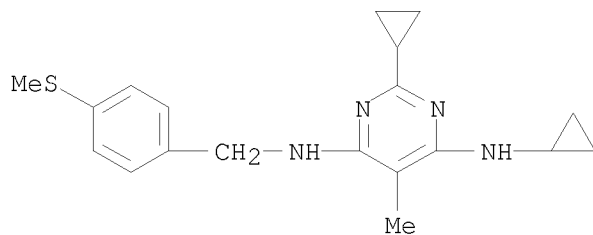
RN 617718-02-2 CAPLUS

CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-5-methyl-N'-[[4-(methylthio)phenyl]methyl]-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 617718-01-1

CMF C19 H24 N4 S

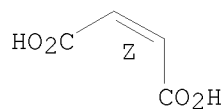


CM 2

CRN 110-16-7

CMF C4 H4 O4

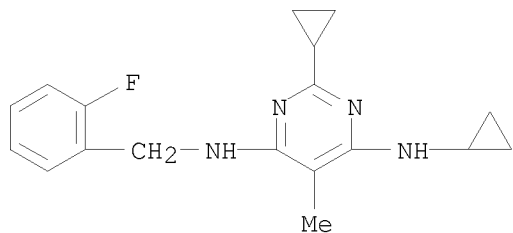
Double bond geometry as shown.



RN 617718-06-6 CAPLUS
 CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-N'-[(2-fluorophenyl)methyl]-5-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

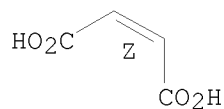
CRN 617718-05-5
 CMF C18 H21 F N4



CM 2

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.

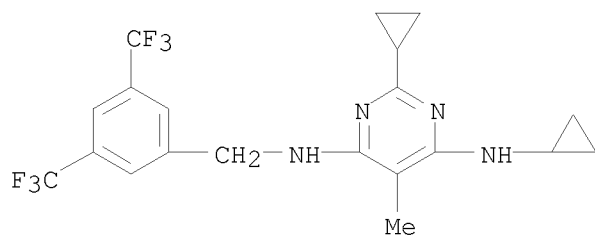


RN 617718-09-9 CAPLUS
 CN 4,6-Pyrimidinediamine, N-[[3,5-bis(trifluoromethyl)phenyl]methyl]-N',2-dicyclopropyl-5-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 617718-08-8
 CMF C20 H20 F6 N4

10/581,897 (amended)

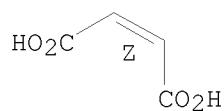


CM 2

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



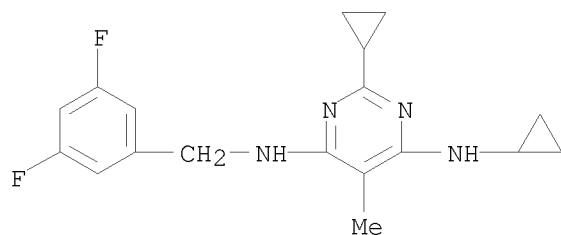
RN 617718-11-3 CAPLUS

CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-N'-[(3,5-difluorophenyl)methyl]-5-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 617718-10-2

CMF C18 H20 F2 N4

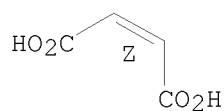


CM 2

CRN 110-16-7

CMF C4 H4 O4

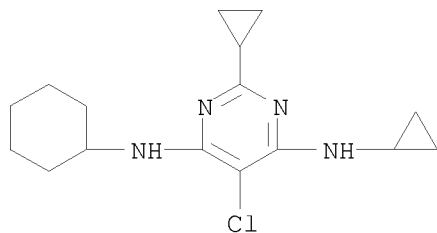
Double bond geometry as shown.



RN 617718-19-1 CAPLUS
 CN 4,6-Pyrimidinediamine, 5-chloro-N-cyclohexyl-N',2-dicyclopropyl-,
 (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

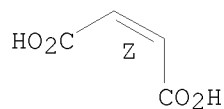
CRN 617718-18-0
 CMF C16 H23 Cl N4



CM 2

CRN 110-16-7
 CMF C4 H4 O4

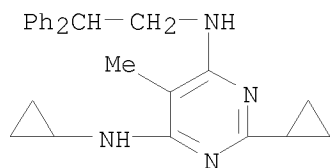
Double bond geometry as shown.



RN 617718-33-9 CAPLUS
 CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-N'-(2,2-diphenylethyl)-5-methyl-,
 (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 617718-32-8
 CMF C25 H28 N4

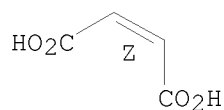


CM 2

CRN 110-16-7

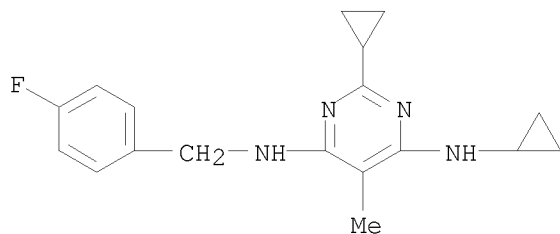
CMF C4 H4 O4

Double bond geometry as shown.



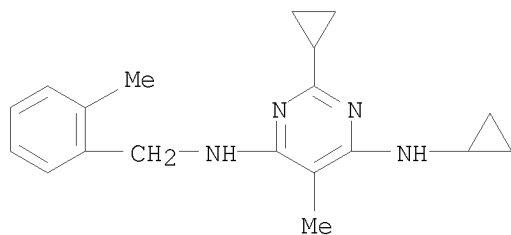
RN 617718-67-9 CAPLUS

CN 4,6-Pyrimidinediamine, N4,2-dicyclopropyl-N6-[(4-fluorophenyl)methyl]-5-methyl- (CA INDEX NAME)



RN 617718-68-0 CAPLUS

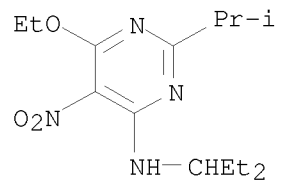
CN 4,6-Pyrimidinediamine, N4,2-dicyclopropyl-5-methyl-N6-[(2-methylphenyl)methyl]- (CA INDEX NAME)



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/581,897 (amended)

L10 ANSWER 29 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2003:775798 CAPLUS
 DN 140:192821
 TI N,N'-dicyclopentyl-2-methylsulfanyl-5-nitro-pyrimidine-4,6-diamine
 (GS39783) and structurally related compounds: Novel allosteric enhancers
 of γ -aminobutyric acidB receptor function
 AU Urwyler, Stephan; Pozza, Mario F.; Lingenhoehl, Kurt; Mosbacher, Johannes;
 Lampert, Christina; Froestl, Wolfgang; Koller, Manuel; Kaupmann, Klemens
 CS Novartis Institutes for BioMedical Research, Novartis Pharma AG, Basel,
 Switz.
 SO Journal of Pharmacology and Experimental Therapeutics (2003), 307(1),
 322-330
 CODEN: JPETAB; ISSN: 0022-3565
 PB American Society for Pharmacology and Experimental Therapeutics
 DT Journal
 LA English
 AB N,N'-Dicyclopentyl-2-methylsulfanyl-5-nitro-pyrimidine-4,6-diamine
 (GS39783) and structurally related compds. are described as novel
 allosteric enhancers of GABAB receptor function. They potentiate
 GABA-stimulated guanosine 5'-O-(3-[35S]thio)-triphosphate
 ([35S]GTP γ S) binding to membranes from a GABAB(1b/2)-expressing
 Chinese hamster ovary cell line at low micromolar concns., but do not
 stimulate [35S]GTP γ S binding by themselves. Similar effects of
 GS39783 are seen on native GABAB receptors in rat brain membranes.
 Concentration-response curves with GABA in the presence of different fixed
 concns. of GS39783 reveal an increase of both the potency and maximal
 efficacy of GABA at the GABAB(1b/2) heterodimer. In radioligand binding
 expts., GS39783 reduces the kinetic rate consts. of the association and
 dissociation of [3H]3-aminopropylphosphinic acid, resulting in a net increase
 in affinity for the agonist radioligand. In equilibrium binding expts.
 (displacement of the antagonist ligand [3H]CGP62349), GS39783 increases
 agonist affinities. Agonist displacement curves are biphasic, probably
 reflecting the G protein-coupled and uncoupled states of the receptor.
 The proportion of the high-affinity component is increased by GS39783,
 suggesting that the G protein coupling of the receptor is also promoted by
 the pos. modulator. We also show that GS39783 has modulatory effects in
 cellular assays such as GABAB receptor-mediated activation of inwardly
 rectifying potassium channels in *Xenopus* oocytes and Ca²⁺ signaling in
 human embryonic kidney 293 cells. In a more physiol. context, GS39783 is
 shown to suppress paired pulse inhibition in rat hippocampal slices. This
 effect is reversed by the competitive GABAB receptor antagonist CGP55845A
 and is produced most likely by enhancing the effect of synaptically
 released GABA at presynaptic GABAB receptors.
 IT 58289-04-6, CGA 44010
 RL: PAC (Pharmacological activity); BIOL (Biological study)
 (GS39783 and structurally related compds. as novel allosteric enhancers
 of GABAB receptor function)
 RN 58289-04-6 CAPLUS
 CN 4-Pyrimidinamine, 6-ethoxy-N-(1-ethylpropyl)-2-(1-methylethyl)-5-nitro-
 (CA INDEX NAME)



OSC.G	71	THERE ARE 71 CAPLUS RECORDS THAT CITE THIS RECORD (72 CITINGS)
RE.CNT	24	THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 30 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2003:532650 CAPLUS
 DN 139:85375
 TI Preparation of novel alkanesulfonamides as endothelin antagonists
 IN Bolli, Martin; Boss, Christoph; Clozel, Martine; Fischli, Walter; Weller, Thomas
 PA Actelion Pharmaceuticals Ltd., Switz.
 SO PCT Int. Appl., 70 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003055863	A1	20030710	WO 2002-EP13970	20021210
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2471220	A1	20030710	CA 2002-2471220	20021210
	AU 2002361033	A1	20030715	AU 2002-361033	20021210
	AU 2002361033	B2	20081120		
	EP 1465875	A1	20041013	EP 2002-795133	20021210
	EP 1465875	B1	20071219		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	BR 2002015424	A	20041214	BR 2002-15424	20021210
	HU 2005000082	A2	20050428	HU 2005-82	20021210
	CN 1612864	A	20050504	CN 2002-826644	20021210
	CN 100537546	C	20090909		
	JP 2005513155	T	20050512	JP 2003-556394	20021210
	NZ 533693	A	20070223	NZ 2002-533693	20021210
	AT 381545	T	20080115	AT 2002-795133	20021210
	ES 2297040	T3	20080501	ES 2002-795133	20021210
	TW 248436	B	20060201	TW 2002-91137487	20021226
	ZA 2004004927	A	20050926	ZA 2004-4927	20040622
	US 20050085639	A1	20050421	US 2004-500485	20040629
	US 7323465	B2	20080129		
	MX 2004006457	A	20041004	MX 2004-6457	20040630
	NO 2004003215	A	20040729	NO 2004-3215	20040729
	NO 327220	B1	20090518		
PRAI	WO 2002-EP2	A	20020102		
	WO 2002-EP13970	W	20021210		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 139:85375

AB The invention relates to novel alkanesulfonamides of formula I [R1 = alkyl; R2 = aryl, heteroaryl, alkyl; R3 = aryl, heteroaryl; R4 = H, CF3, alkyl, alkylamino, alkoxy, alkylthio, aryl, heteroaryl, cycloalkyl, etc.; X = O, bond; Y = O, NH, NHSO2, NHSO2NH, OCONH, NHCO2, NHCONH; Z = O, S, NH; n = 2-4]. The invention also concerns related aspects including processes for the preparation of the compds., pharmaceutical compns. containing one

or more of those compds. and especially their use as endothelin receptor antagonists in the treatment and prevention of diseases associated to the endothelin system. Thus, II was prepared from di-Et 2-(p-tolyl)malonate, ethane sulfonamide potassium salt and 2-chloro-5-bromopyrimidine. In competition binding studies, the IC₅₀ value of II against ETA receptor was 3.96 nM and >1000 against ETB.

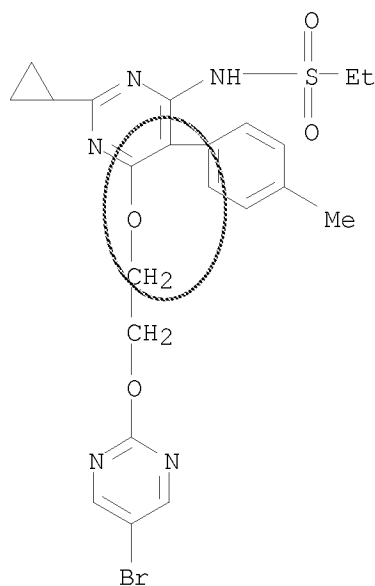
IT 556796-97-5P 556796-98-6P 556796-99-7P
 556797-00-3P 556797-12-7P 556797-13-8P
 556797-14-9P 556797-15-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrimidine alkanesulfonamides as endothelin antagonists)

RN 556796-97-5 CAPLUS

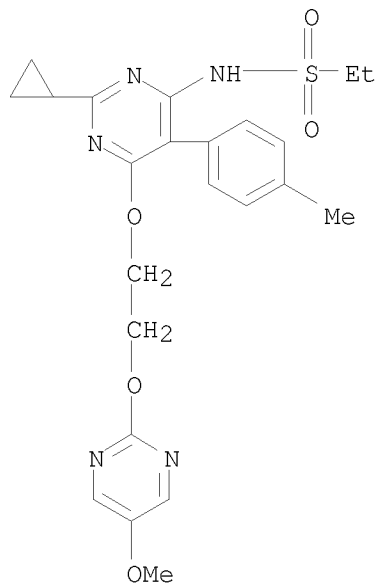
CN Ethanesulfonamide, N-[6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-2-cyclopropyl-5-(4-methylphenyl)-4-pyrimidinyl]- (CA INDEX NAME)



RN 556796-98-6 CAPLUS

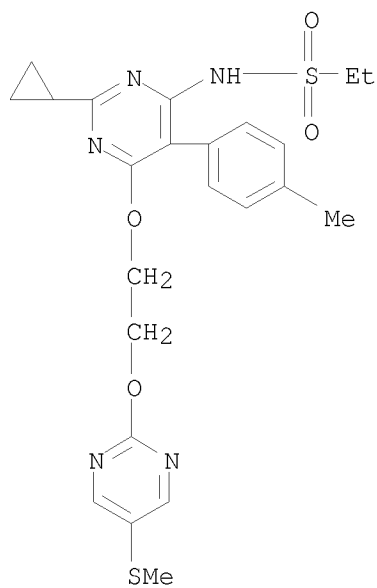
CN Ethanesulfonamide, N-[2-cyclopropyl-6-[2-[(5-methoxy-2-pyrimidinyl)oxy]ethoxy]-5-(4-methylphenyl)-4-pyrimidinyl]- (CA INDEX NAME)

10/581,897 (amended)



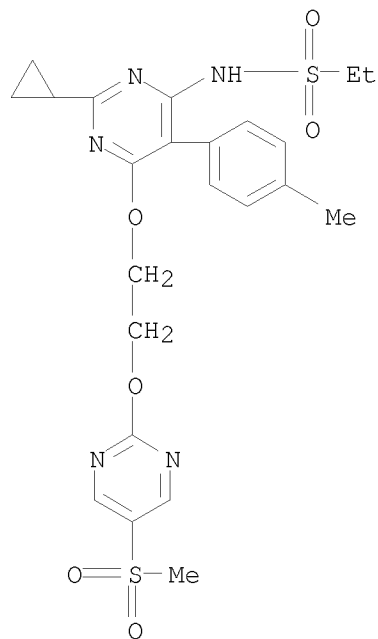
RN 556796-99-7 CAPLUS

CN Ethanesulfonamide, N-[2-cyclopropyl-5-(4-methylphenyl)-6-[2-[[5-(methylthio)-2-pyrimidinyl]oxy]ethoxy]-4-pyrimidinyl]- (CA INDEX NAME)



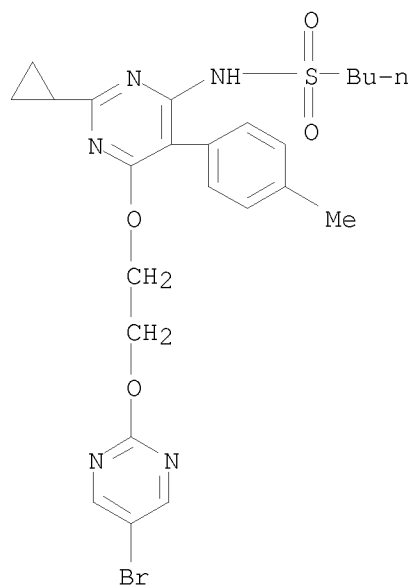
RN 556797-00-3 CAPLUS

CN Ethanesulfonamide, N-[2-cyclopropyl-5-(4-methylphenyl)-6-[2-[[5-(methylsulfonyl)-2-pyrimidinyl]oxy]ethoxy]-4-pyrimidinyl]- (CA INDEX NAME)



RN 556797-12-7 CAPLUS

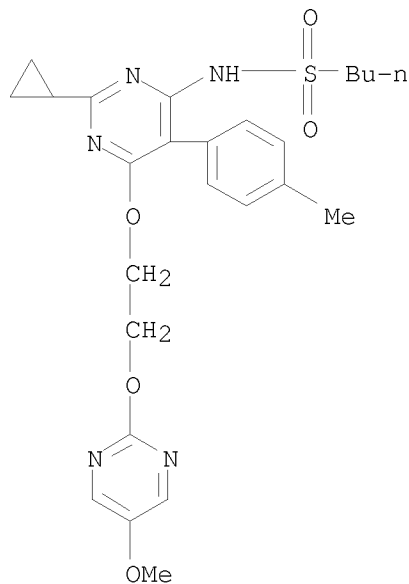
CN 1-Butanesulfonamide, N-[6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-2-cyclopropyl-5-(4-methylphenyl)-4-pyrimidinyl]- (CA INDEX NAME)



RN 556797-13-8 CAPLUS

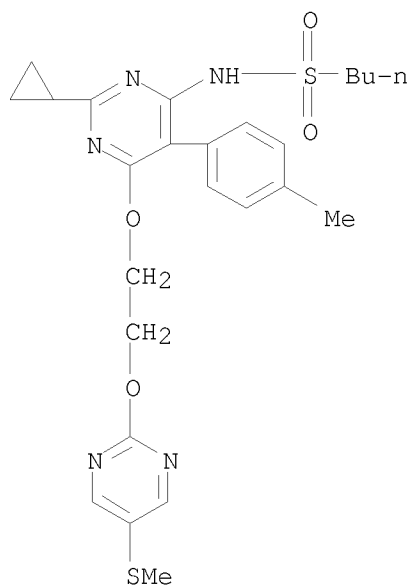
CN 1-Butanesulfonamide, N-[2-cyclopropyl-6-[2-[(5-methoxy-2-pyrimidinyl)oxy]ethoxy]-5-(4-methylphenyl)-4-pyrimidinyl]- (CA INDEX NAME)

10/581,897 (amended)



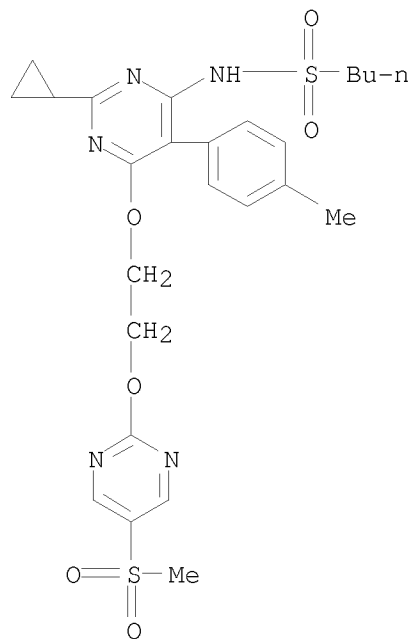
RN 556797-14-9 CAPLUS

CN 1-Butanesulfonamide, N-[2-cyclopropyl-5-(4-methylphenyl)-6-[2-[[5-(methylthio)-2-pyrimidinyl]oxy]ethoxy]-4-pyrimidinyl]- (CA INDEX NAME)



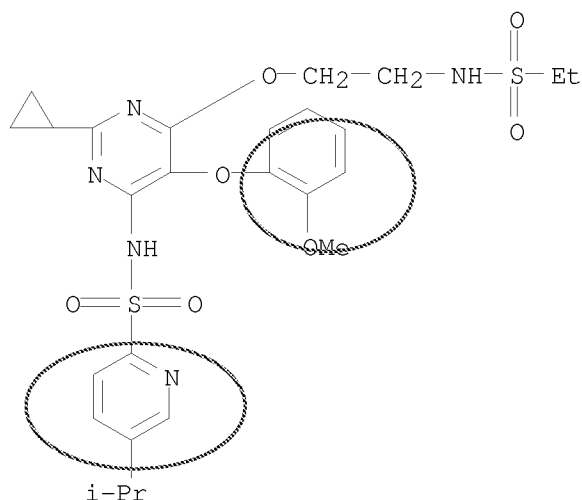
RN 556797-15-0 CAPLUS

CN 1-Butanesulfonamide, N-[2-cyclopropyl-5-(4-methylphenyl)-6-[2-[[5-(methylsulfonyl)-2-pyrimidinyl]oxy]ethoxy]-4-pyrimidinyl]- (CA INDEX NAME)



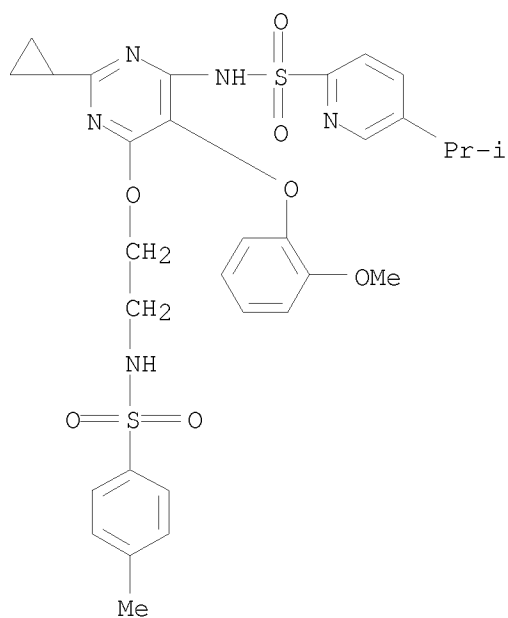
OSC.G	2	THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
RE.CNT	4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 31 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2003:162650 CAPLUS
 DN 139:78410
 TI Bis-sulfonamides as endothelin receptor antagonists
 AU Boss, Christoph; Bolli, Martin H.; Weller, Thomas; Fischli, Walter;
 Clozel, Martine
 CS Drug Discovery Chemistry and Preclinical Research, Actelion
 Pharmaceuticals Ltd, Allschwil/BL, CH-4123, Switz.
 SO Bioorganic & Medicinal Chemistry Letters (2003), 13(5), 951-954
 CODEN: BMCLE8; ISSN: 0960-894X
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 OS CASREACT 139:78410
 AB Modification of the structure of bosentan 1, the first marketed endothelin
 receptor antagonist (Tracleer), by introduction of a second sulfonamide
 function at the alkoxy side chain, led to bis-sulfonamides 2. This
 allowed to prepare dual ETA/ETB as well as ETB receptor selective
 antagonists, which could serve as tools to investigate the pharmacol.
 consequences of selective ETB receptor blockade.
 IT 329924-34-7P 329924-36-9P 329924-43-8P
 329924-54-1P 329925-16-8P 329925-17-9P
 329925-20-4P 329925-27-1P 329925-28-2P
 329925-29-3P 329925-30-6P 556066-64-9P
 556066-65-0P 556066-66-1P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 (bis-sulfonamides as endothelin receptor antagonists)
 RN 329924-34-7 CAPLUS
 CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-
 5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



RN 329924-36-9 CAPLUS
 CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(4-
 methylphenyl)sulfonyl]amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA

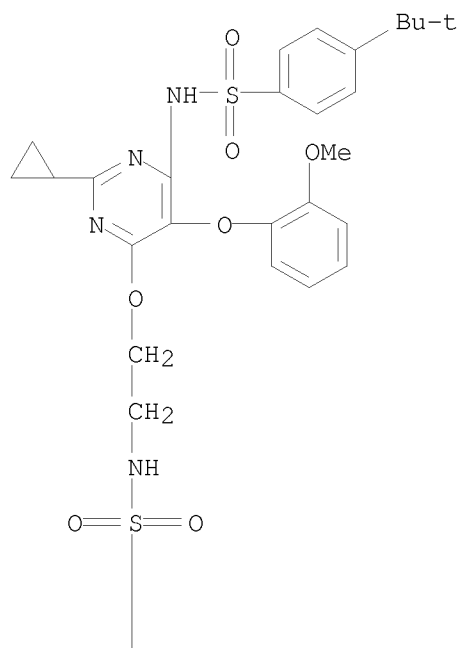
INDEX NAME)



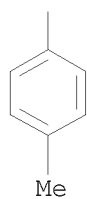
RN 329924-43-8 CAPLUS

CN Benzenesulfonamide, N-[2-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl]-4-methyl- (CA INDEX NAME)

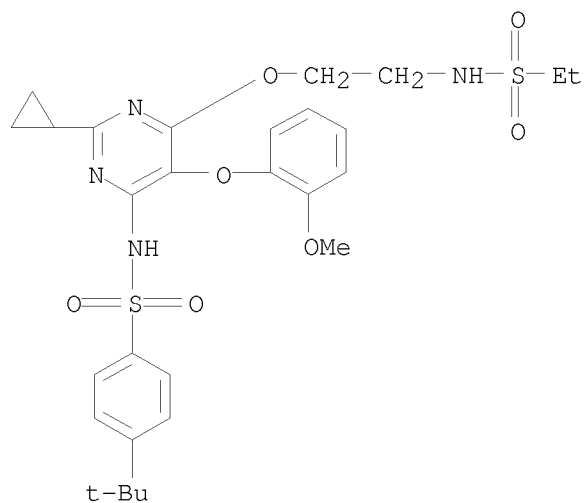
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PAGE 2-A

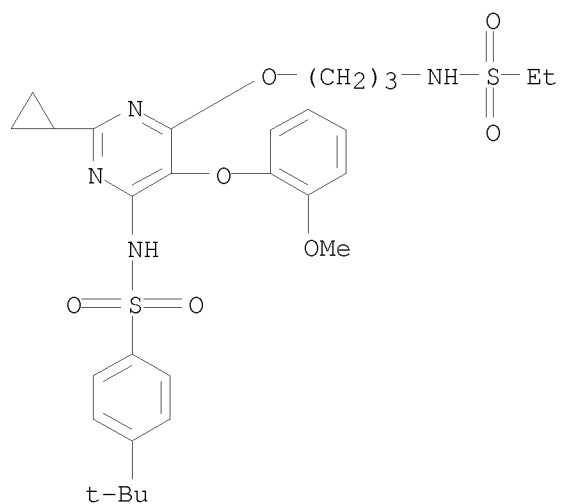


RN 329924-54-1 CAPLUS
 CN Benzenesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



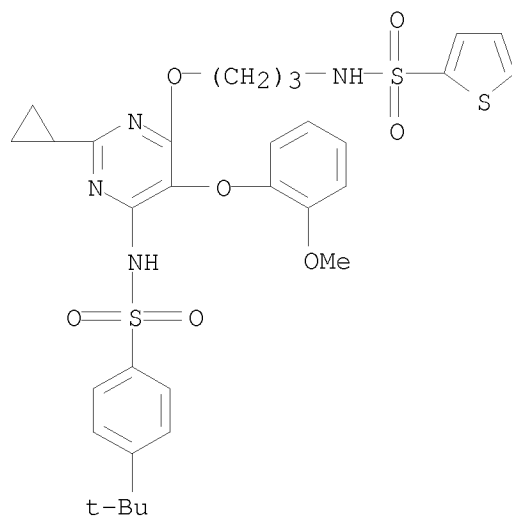
RN 329925-16-8 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-[3-[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



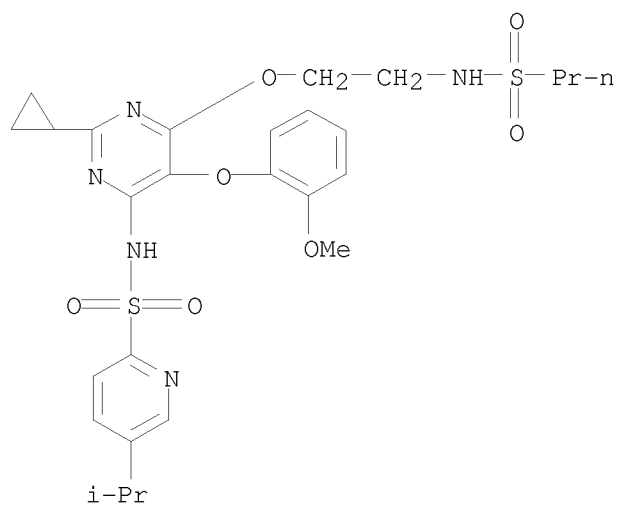
RN 329925-17-9 CAPLUS

CN 2-Thiophenesulfonamide, N-[3-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]propyl]- (CA INDEX NAME)



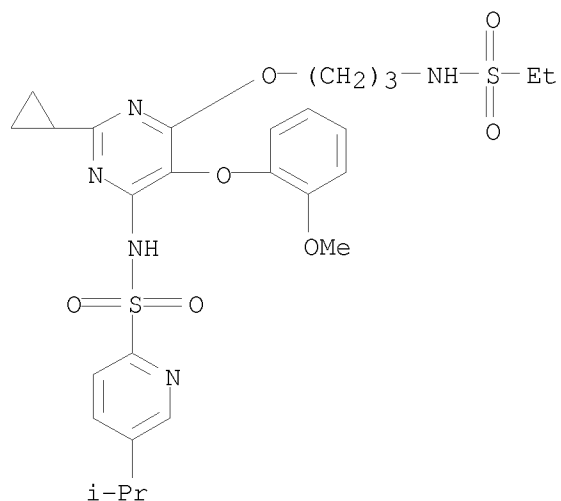
RN 329925-20-4 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(propylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



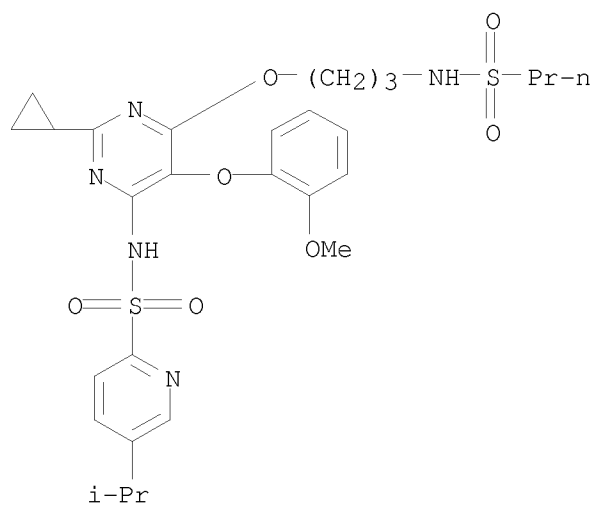
RN 329925-27-1 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[3-[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



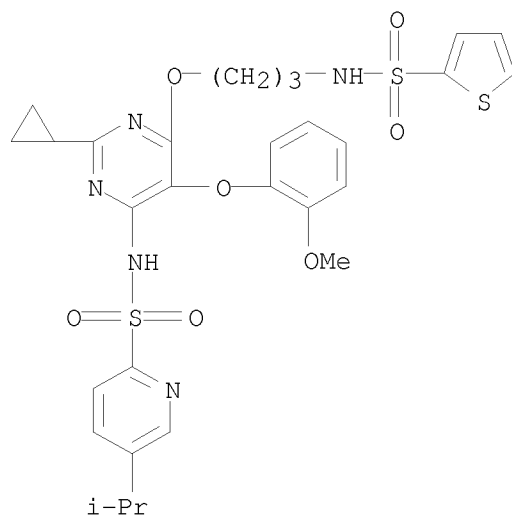
RN 329925-28-2 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(propylsulfonyl)amino]propoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



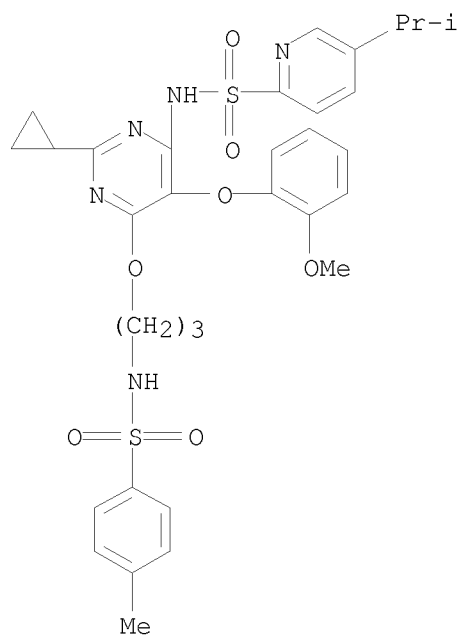
RN 329925-29-3 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(2-thienylsulfonyl)amino]propoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



RN 329925-30-6 CAPLUS

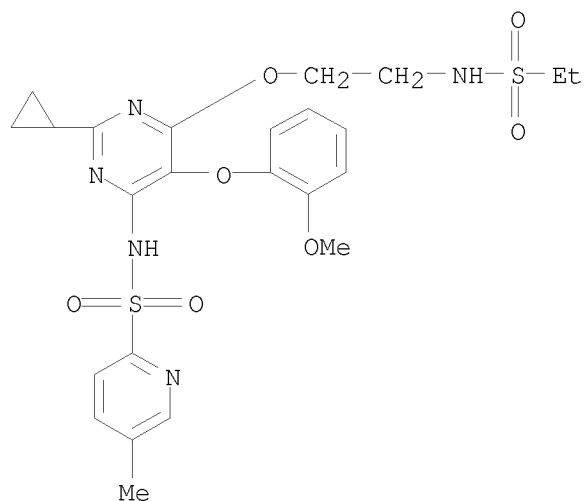
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[[4-methylphenyl)sulfonyl]amino]propoxy]-4-pyrimidinyl]-5-(1-methylethyl)-
(CA INDEX NAME)



RN 556066-64-9 CAPLUS

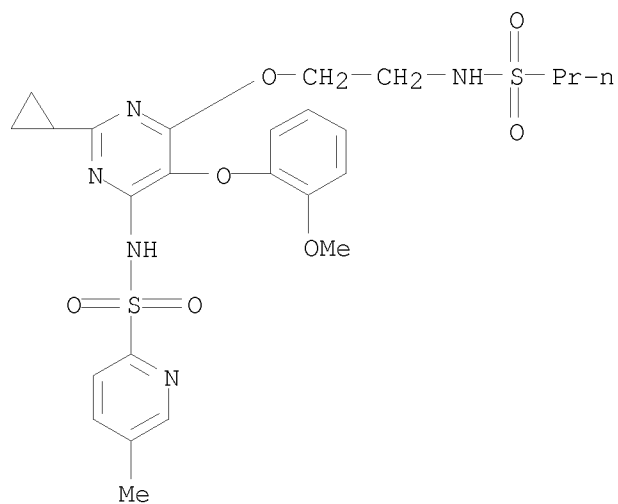
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-methyl- (CA INDEX NAME)

10/581,897 (amended)



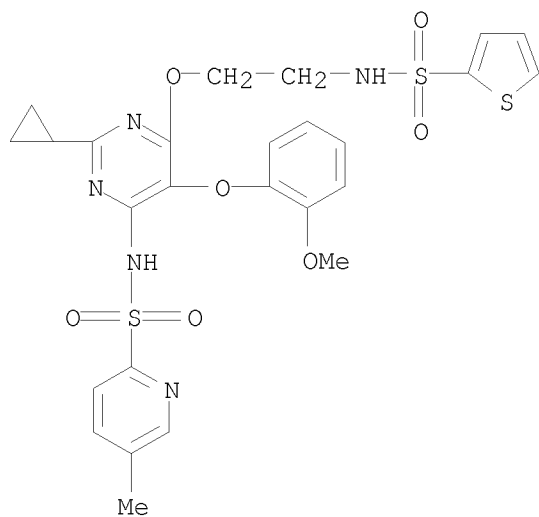
RN 556066-65-0 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(propylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-5-methyl- (CA INDEX NAME)

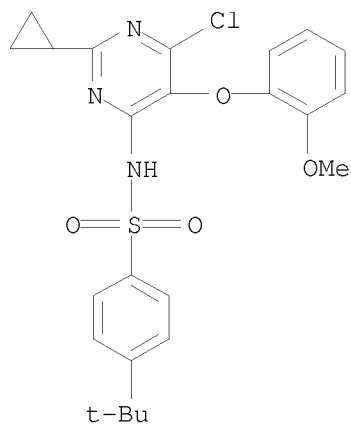


RN 556066-66-1 CAPLUS

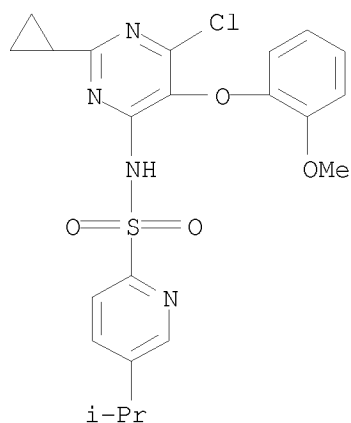
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(2-thienylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-5-methyl- (CA INDEX NAME)



IT 150727-73-4P 329924-30-3P 329924-32-5P
 329924-39-2P 329925-15-7P 329925-26-0P
 556066-74-1P 556066-90-1P 556067-17-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (bis-sulfonamides as endothelin receptor antagonists)
 RN 150727-73-4 CAPLUS
 CN Benzenesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-
 pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)

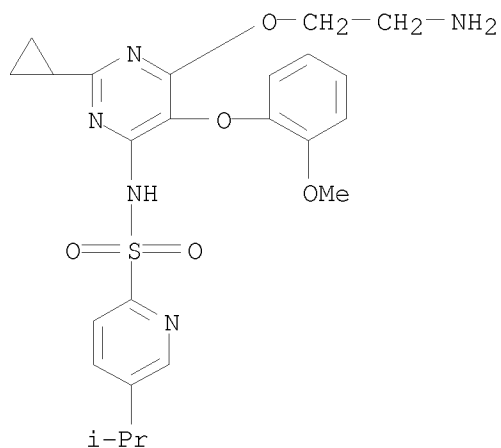


RN 329924-30-3 CAPLUS
 CN 2-Pyridinesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-
 pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



RN 329924-32-5 CAPLUS

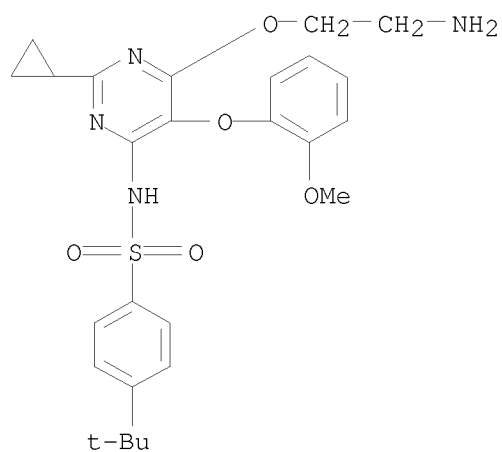
CN 2-Pyridinesulfonamide, N-[6-(2-aminoethoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



RN 329924-39-2 CAPLUS

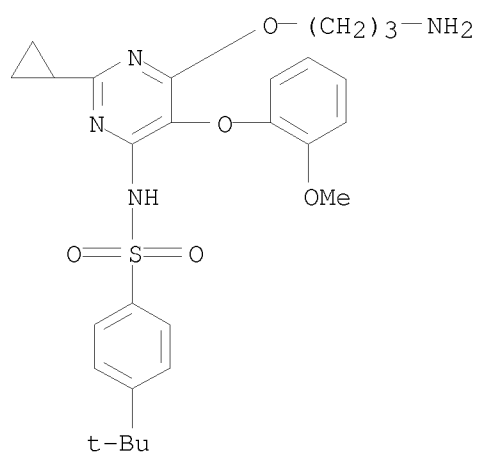
CN Benzenesulfonamide, N-[6-(2-aminoethoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)

10/581,897 (amended)



RN 329925-15-7 CAPLUS

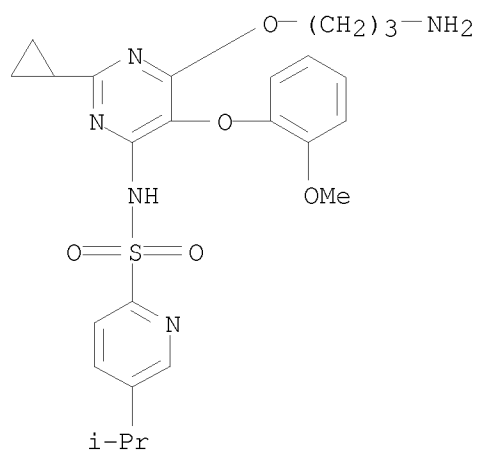
CN Benzenesulfonamide, N-[6-(3-aminopropoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



RN 329925-26-0 CAPLUS

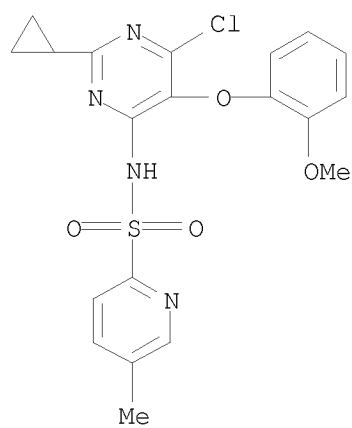
CN 2-Pyridinesulfonamide, N-[6-(3-aminopropoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)

10/581,897 (amended)



RN 556066-74-1 CAPLUS

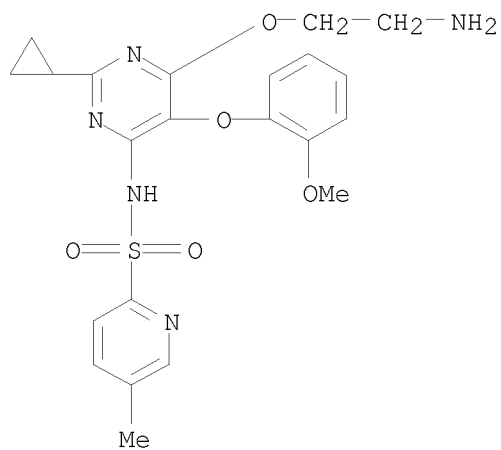
CN 2-Pyridinesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-methyl- (CA INDEX NAME)



RN 556066-90-1 CAPLUS

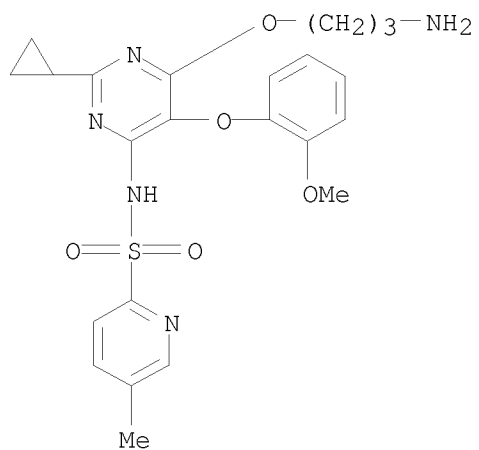
CN 2-Pyridinesulfonamide, N-[6-(2-aminoethoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-methyl- (CA INDEX NAME)

10/581,897 (amended)



RN 556067-17-5 CAPLUS

CN 2-Pyridinesulfonamide, N-[6-(3-aminopropoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-methyl- (CA INDEX NAME)



OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 32 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2003:57831 CAPLUS
 DN 138:122666
 TI Preparation of aminotriazines as herbicides and plant growth regulators
 IN Bojack, Guido; Willms, Lothar; Angermann, Alfred; Bieringer, Hermann;
 Menne, Hubert; Auler, Thomas
 PA Bayer CropScience GmbH, Germany
 SO PCT Int. Appl., 127 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003005824	A2	20030123	WO 2002-EP7411	20020704
	WO 2003005824	A3	20030501		
	W:	AE, AG, AL, AM, AU, AZ, BA, BB, BR, BY, BZ, CA, CN, CO, CR, CU, DM, DZ, EC, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, OM, PH, PL, RO, RU, SG, SI, TJ, TM, TN, TT, UA, US, UZ, VN, YU, ZA			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	DE 10135043	A1	20030130	DE 2001-10135043	20010711
	AU 2002354529	A1	20030129	AU 2002-354529	20020704
	US 20030171218	A1	20030911	US 2002-191689	20020709
PRAI	DE 2001-10135043	A	20010711		
	WO 2002-EP7411	W	20020704		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 138:122666

AB Title compds. I [A = (un)substituted aryl, heteroaryl, heterocycle, etc.; B = direct bond, alkylene, alkenylene, etc.; W = O, S, H2 (sic); V = CH2, S, O, etc.; R1, R2 = H, amino, alkyl, etc.; Q = O, S, SO, etc.; D = (un)substituted aryl, heteroaryl] were prepared For example, coupling of hydroxypyrrolin-2-one II and 4-chloro-6-(1-fluoro-1-methylethyl)-1, 3, 5-triazin-2-amine afforded aminotriazine III. Compds. I were said to show very good pre- and postemergent herbicidal activity and very good crop tolerance.

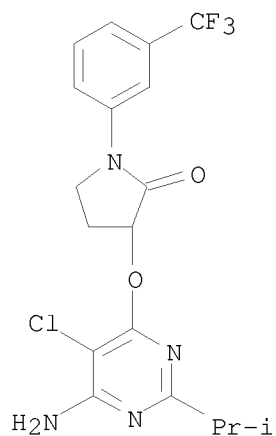
IT 1066420-67-4 1067195-20-3 1067197-62-9
 1067197-69-6 1067198-77-9

RL: PRPH (Prophetic)

(Preparation of aminotriazines as herbicides and plant growth regulators)

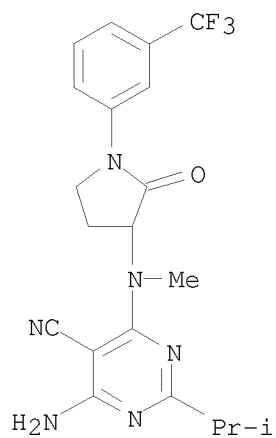
RN 1066420-67-4 CAPLUS

CN 2-Pyrrolidinone, 3-[[6-amino-5-chloro-2-(1-methylethyl)-4-pyrimidinyl]oxy]-1-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



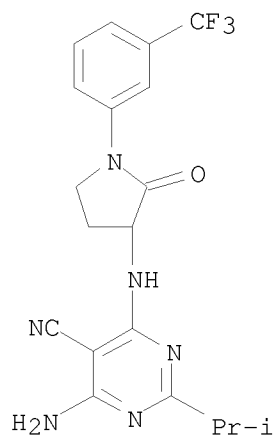
RN 1067195-20-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-amino-2-(1-methylethyl)-6-[methyl[2-oxo-1-[3-(trifluoromethyl)phenyl]-3-pyrrolidinyl]amino]- (CA INDEX NAME)



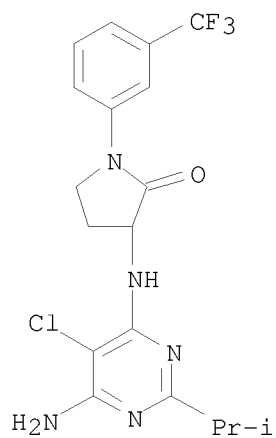
RN 1067197-62-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-amino-2-(1-methylethyl)-6-[[2-oxo-1-[3-(trifluoromethyl)phenyl]-3-pyrrolidinyl]amino]- (CA INDEX NAME)



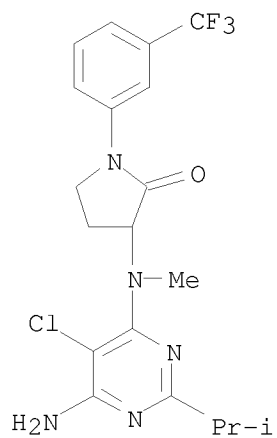
RN 1067197-69-6 CAPLUS

CN 2-Pyrrolidinone, 3-[[6-amino-5-chloro-2-(1-methylethyl)-4-pyrimidinyl]amino]-1-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 1067198-77-9 CAPLUS

CN 2-Pyrrolidinone, 3-[[6-amino-5-chloro-2-(1-methylethyl)-4-pyrimidinyl]methylamino]-1-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



OSC.G	2	THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
RE.CNT	11	THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 33 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2002:521730 CAPLUS
 DN 137:93766
 TI Preparation of novel pyrimidine-sulfamides as endothelin receptor antagonists
 IN Bolli, Martin; Boss, Christoph; Fischli, Walter; Clozel, Martine; Weller, Thomas
 PA Actelion Pharmaceuticals Ltd., Switz.
 SO PCT Int. Appl., 143 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002053557	A1	20020711	WO 2001-EP14182	20011204
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2431675	A1	20020711	CA 2001-2431675	20011204
	AU 2002227984	A1	20020716	AU 2002-227984	20011204
	AU 2002227984	B2	20061207		
	EP 1345920	A1	20030924	EP 2001-989570	20011204
	EP 1345920	B1	20060412		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	BR 2001016237	A	20030930	BR 2001-16237	20011204
	JP 2004517855	T	20040617	JP 2002-554676	20011204
	JP 4245130	B2	20090325		
	CN 1524079	A	20040825	CN 2001-820481	20011204
	CN 100432070	C	20081112		
	NZ 525614	A	20050324	NZ 2001-525614	20011204
	AT 323079	T	20060415	AT 2001-989570	20011204
	EP 1693372	A1	20060823	EP 2006-7371	20011204
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
	PT 1345920	E	20060831	PT 2001-989570	20011204
	ES 2260318	T3	20061101	ES 2001-989570	20011204
	HU 2003001654	A2	20070328	HU 2003-1654	20011204
	HU 2003001654	A3	20070828		
	IL 155805	A	20090211	IL 2001-155805	20011204
	TW 303245	B	20081121	TW 2001-90130769	20011212
	ZA 2003003695	A	20040813	ZA 2003-3695	20030513
	US 20040077670	A1	20040422	US 2003-433041	20030527
	US 7094781	B2	20060822		
	MX 2003004780	A	20040521	MX 2003-4780	20030529
	NO 2003002699	A	20030613	NO 2003-2699	20030613
	NO 324952	B1	20080114		
	KR 819668	B1	20080404	KR 2003-708013	20030616
	US 20060178365	A1	20060810	US 2006-400697	20060407
	US 7285549	B2	20071023		

PRAI WO 2000-EP12890 W 20001218
 EP 2001-989570 A3 20011204
 WO 2001-EP14182 W 20011204
 US 2003-433041 A1 20030527

OS MARPAT 137:93766

AB The title compds. [I; R1 = aryl, arylalkyl, heteroaryl, etc.; or NR1R6 = heterocyclyl; R2 = Me, CH2(tetrahydrofuran-2-yl), etc.; R3 = aryl, heteroaryl; R4 = H, CF3, alkyl, etc.; R6 = H, alkyl; X = O, S, CH2, a bond] were prepared Thus, treating 4-isopropylphenylsulfamic acid [6-chloro-5-(2-methoxyphenoxy)-2-(4-pyridyl)pyrimidin-4-yl]amide (5-step synthesis given) with NaH in MeOH and THF afforded I [R1 = 4-(iso-Pr)C6H4; R2 = Me; R3 = 2-MeOC6H4; R4 = 4-pyridyl; R6 = H; X = O] which showed IC50 of 721 nM and 8429 nM against ETA and ETB receptor binding, resp.

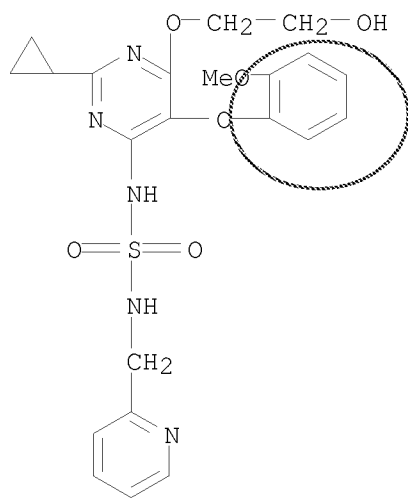
IT 441795-92-2P 441795-93-3P 441795-94-4P
 441795-95-5P 441795-96-6P 441795-97-7P
 441795-98-8P 441795-99-9P 441796-00-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrimidine-sulfamides as endothelin receptor antagonists)

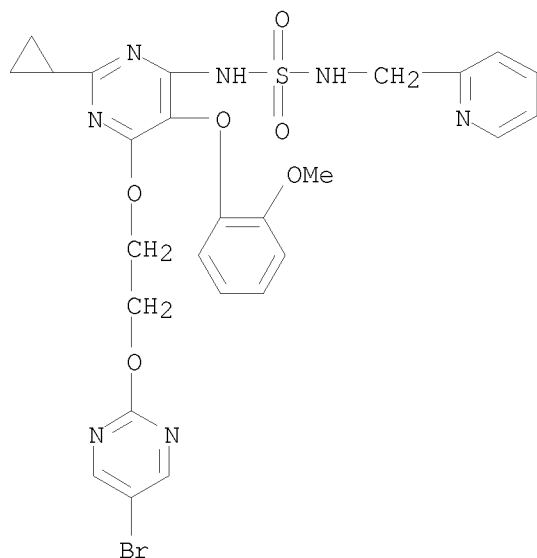
RN 441795-92-2 CAPLUS

CN Sulfamide, N-[2-cyclopropyl-6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-N'-(2-pyridinylmethyl)- (CA INDEX NAME)

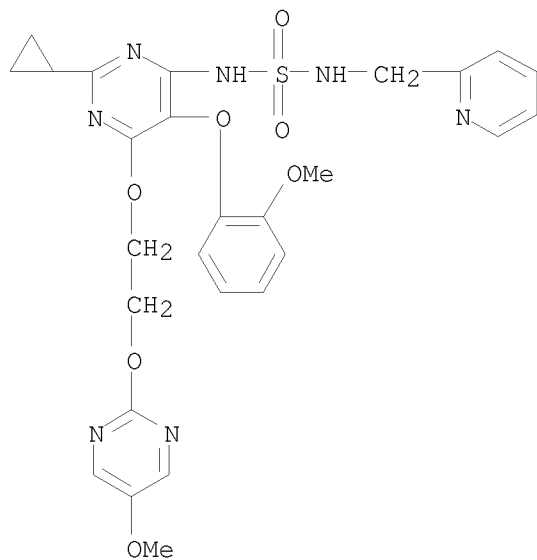


RN 441795-93-3 CAPLUS

CN Sulfamide, N-[6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-N'-(2-pyridinylmethyl)- (CA INDEX NAME)

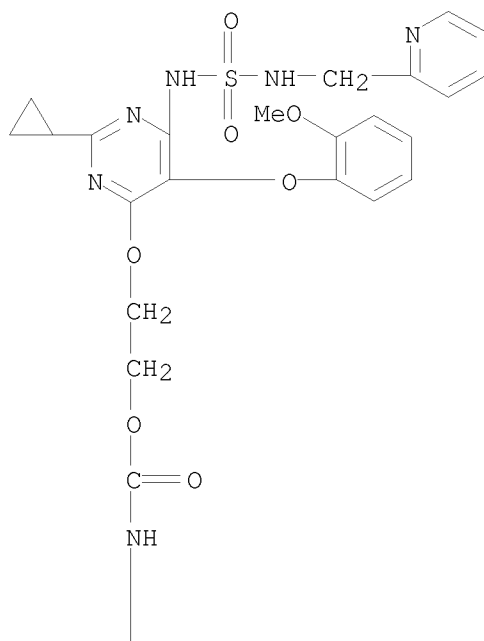


RN 441795-94-4 CAPLUS
 CN Sulfamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(5-methoxy-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-N'-(2-pyridinylmethyl)- (CA INDEX NAME)

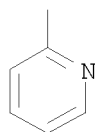


RN 441795-95-5 CAPLUS
 CN Carbamic acid, 2-pyridinyl-, 2-[[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[[[(2-pyridinylmethyl)amino]sulfonyl]amino]-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)

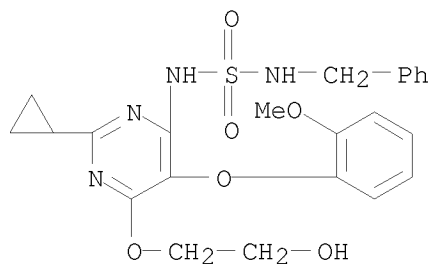
PAGE 1-A



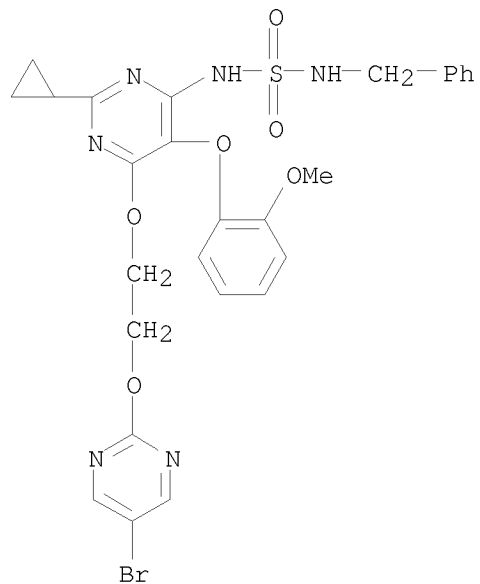
PAGE 2-A



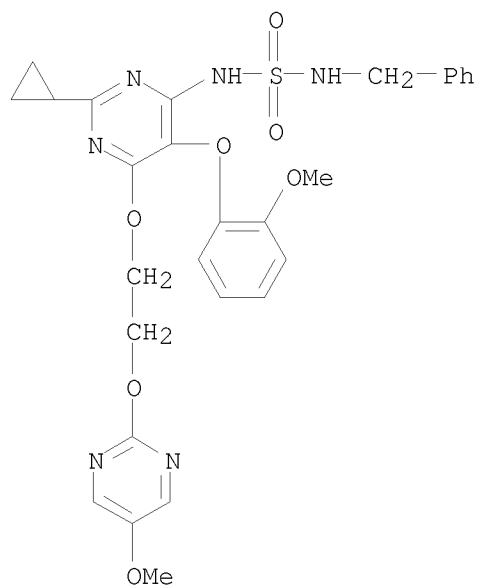
RN 441795-96-6 CAPLUS
 CN Sulfamide, N-[2-cyclopropyl-6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-N'-(phenylmethyl)- (CA INDEX NAME)



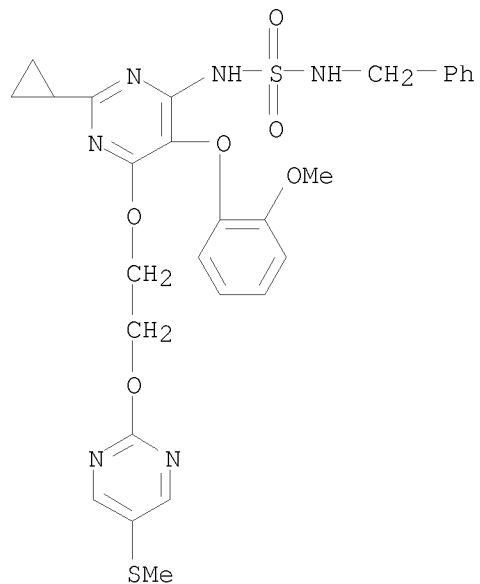
RN 441795-97-7 CAPLUS
 CN Sulfamide, N-[6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-N'-(phenylmethyl)- (CA INDEX NAME)



RN 441795-98-8 CAPLUS
 CN Sulfamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(5-methoxy-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-N'-(phenylmethyl)- (CA INDEX NAME)

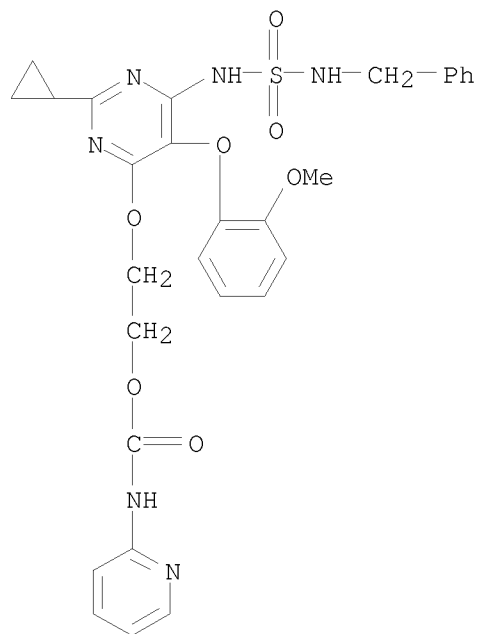


RN 441795-99-9 CAPLUS
 CN Sulfamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[[5-(methylthio)-2-pyrimidinyl]oxy]ethoxy]-4-pyrimidinyl]-N'-(phenylmethyl)- (CA INDEX NAME)



RN 441796-00-5 CAPLUS

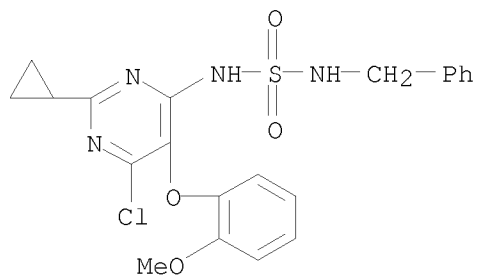
CN Carbamic acid, 2-pyridinyl-, 2-[[[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[[[(phenylmethyl)amino]sulfonyl]amino]-4-pyrimidinyl]oxy]ethyl ester (9CI)
(CA INDEX NAME)



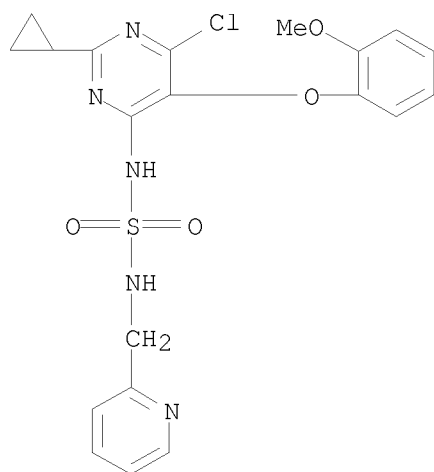
IT 441797-53-1P 441797-54-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of pyrimidine-sulfamides as endothelin receptor antagonists)

RN 441797-53-1 CAPLUS

CN Sulfamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-
N'-(phenylmethyl)- (CA INDEX NAME)

RN 441797-54-2 CAPLUS

CN Sulfamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-
N'-(2-pyridinylmethyl)- (CA INDEX NAME)

OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
 RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 34 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2002:90020 CAPLUS
 DN 136:151171
 TI Preparation of arylenesulfonic acid pyrimidinylamides as endothelin
 receptor antagonists.
 IN Boss, Christoph; Bolli, Martin; Clozel, Martine; Fischli, Walter; Weller,
 Thomas
 PA Actelion Pharmaceuticals Ltd., Switz.
 SO PCT Int. Appl., 105 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002008200	A2	20020131	WO 2001-EP7922	20010710
	WO 2002008200	A3	20020510		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	CA 2416785	A1	20020131	CA 2001-2416785	20010710
	CA 2416785	C	20091110		
	EP 1309564	A2	20030514	EP 2001-960485	20010710
	EP 1309564	B1	20060614		
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	BR 2001012614	A	20030610	BR 2001-12614	20010710
	HU 2003000965	A2	20031028	HU 2003-965	20010710
	HU 2003000965	A3	20040128		
	JP 2004504385	T	20040212	JP 2002-514106	20010710
	NZ 523304	A	20050225	NZ 2001-523304	20010710
	AU 2001281970	B2	20060316	AU 2001-281970	20010710
	AT 329908	T	20060715	AT 2001-960485	20010710
	ES 2266233	T3	20070301	ES 2001-960485	20010710
	IL 153471	A	20070920	IL 2001-153471	20010710
	TW 289553	B	20071111	TW 2001-90117915	20010723
	US 20030220359	A1	20031127	US 2003-332247	20030103
	US 6951856	B2	20051004		
	ZA 2003000137	A	20040406	ZA 2003-137	20030106
	KR 826332	B1	20080502	KR 2003-700256	20030108
	MX 2003000430	A	20030624	MX 2003-430	20030115
	NO 2003000274	A	20030120	NO 2003-274	20030120
	NO 324771	B1	20071210		
PRAI	WO 2000-EP7006	W	20000721		
	WO 2001-EP7922	W	20010710		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 136:151171

AB Title compds. [I; R1, R2 = aryl, heteroaryl; R3 = (substituted) Ph, benzofuryl, aryl, heteroaryl; R4 = H, halo, CF3, alkyl, alkylamino, alkoxy, alkylsulfono, alkylsulfanyl, alkylthio, alkylthioalkyl, hydroxyalkyl, alkoxyalkyl, hydroxyalkoxyalkyl, hydroxyalkylamino,

alkylaminoalkyl, amino, aryl, arylthio, aryloxy, aralkyloxy, aralkyl, arylsulfinyl, heteroaryl, heteroaryloxy, heteroarylalkyloxy, heteroarylamino, heteroarylthio, heteroarylalkylthio, heteroarylalkyl, heteroarylsulfinyl, heterocyclyl, heterocyclylalkyloxy, heterocyclyoxy, heterocyclylamino, heterocyclylalkylamino, heterocyclylthio, heterocyclylalkylthio; heterocyclylalkyl, heterocyclylsulfinyl, cycloalkyl, cycloalkoxy, cycloalkylalkoxy, etc.; R5, R6 = H, alkyl; X = O, S, NH, CH2, bond; Y = O, S, NH; Z = O, S, NH, bond; Q = (CH2)n, (CH2)mC.tplbond.C(CH2)p; n = 2-6; m = 1-3; p = 0-3], were prepared Thus, NaH in THF was treated with 2-phenylethenesulfonic acid [6-(2-hydroxyethoxy)-5-p-tolylpyrimidin-4-yl]amide (preparation given); after 1 h stirring 5-bromo-2-chloropyrimidine was added and stirring continued for 21 h at 80° to give 2-phenylethenesulfonic acid [6-[2-(5-bromopyrimidin-2-yloxy)ethoxy]-5-p-tolylpyrimidin-4-yl]amide. The latter antagonized endothelin ETA receptors with IC50 = 1.8 nM.

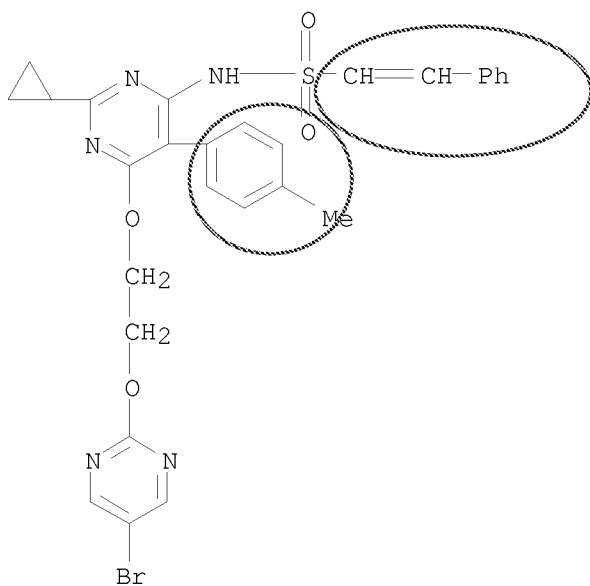
IT 394206-71-4P 394206-72-5P 394206-73-6P
 394206-74-7P 394206-75-8P 394206-76-9P
 394207-32-0P 394207-33-1P 394207-34-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of arylenesulfonic acid pyrimidinylamides as endothelin receptor antagonists)

RN 394206-71-4 CAPLUS

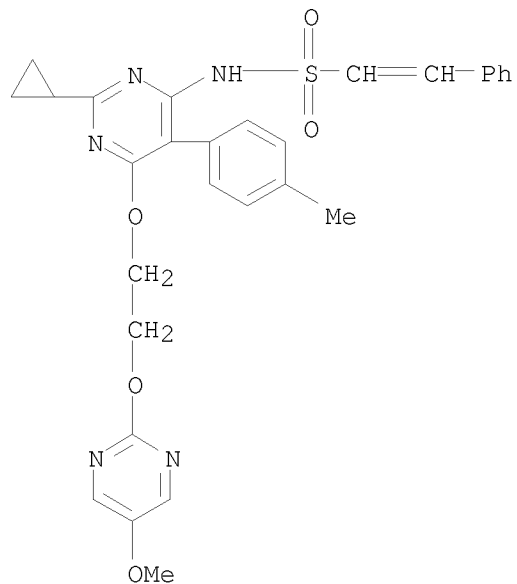
CN Ethenesulfonamide, N-[6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-2-cyclopropyl-5-(4-methylphenyl)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



RN 394206-72-5 CAPLUS

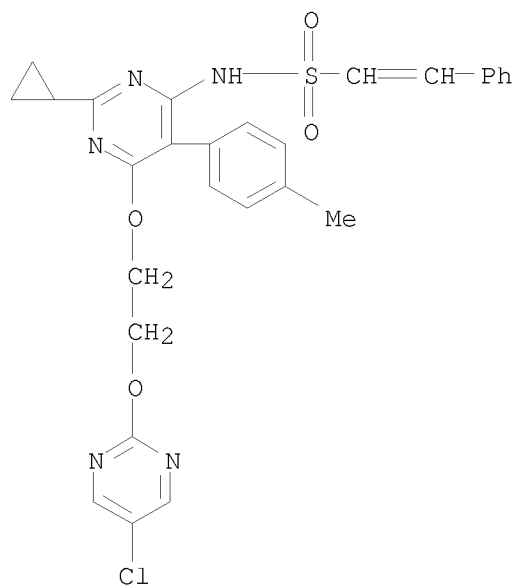
CN Ethenesulfonamide, N-[2-cyclopropyl-6-[2-[(5-methoxy-2-pyrimidinyl)oxy]ethoxy]-5-(4-methylphenyl)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)

10/581,897 (amended)



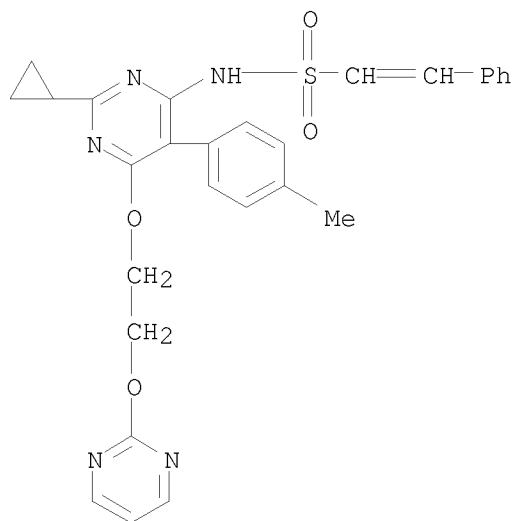
RN 394206-73-6 CAPLUS

CN Ethenesulfonamide, N-[6-[2-[(5-chloro-2-pyrimidinyl)oxy]ethoxy]-2-cyclopropyl-5-(4-methylphenyl)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



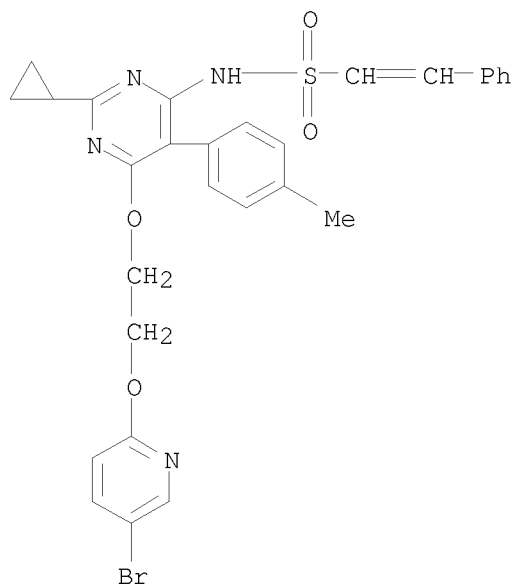
RN 394206-74-7 CAPLUS

CN Ethenesulfonamide, N-[2-cyclopropyl-5-(4-methylphenyl)-6-[2-(2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



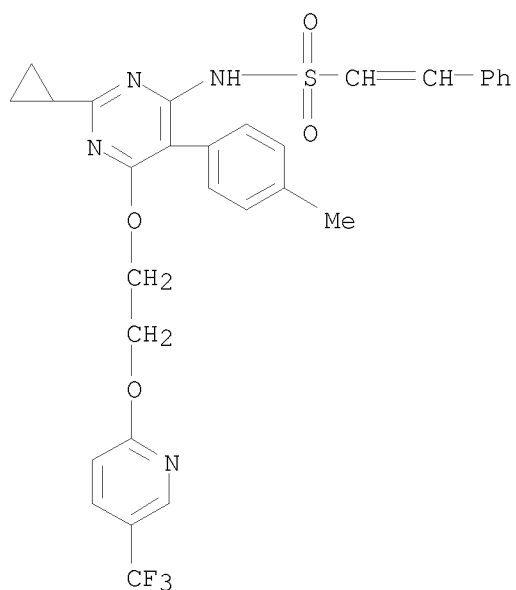
RN 394206-75-8 CAPLUS

CN Ethenesulfonamide, N-[6-[2-[(5-bromo-2-pyridinyl)oxy]ethoxy]-2-cyclopropyl-5-(4-methylphenyl)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)

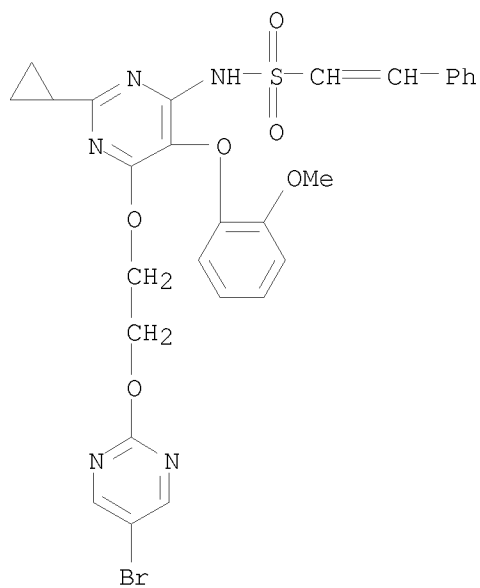


RN 394206-76-9 CAPLUS

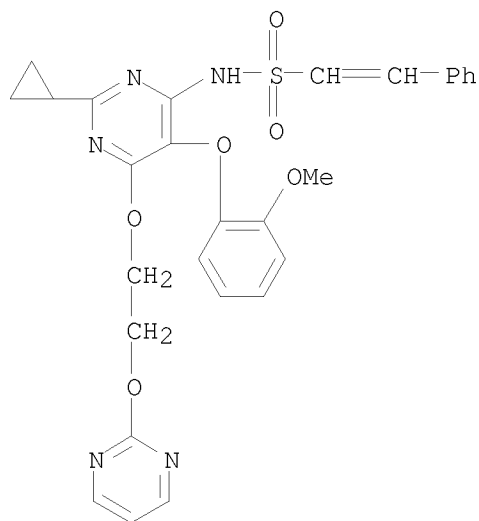
CN Ethenesulfonamide, N-[2-cyclopropyl-5-(4-methylphenyl)-6-[2-[[5-(trifluoromethyl)-2-pyridinyl]oxy]ethoxy]-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



RN 394207-32-0 CAPLUS
 CN Ethenesulfonamide, N-[6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)

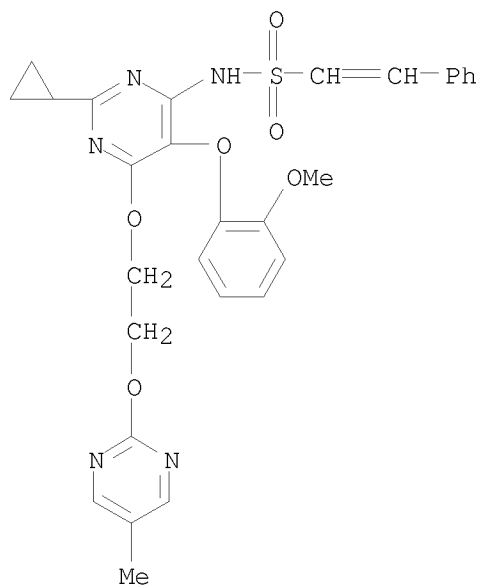


RN 394207-33-1 CAPLUS
 CN Ethenesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-(2-pyrimidinyl)ethoxy]-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



RN 394207-34-2 CAPLUS

CN Ethenesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(5-methyl-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



IT 394204-96-7P 394205-13-1P

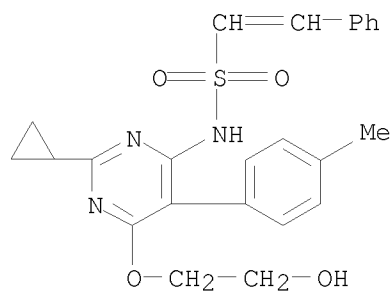
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of arylenesulfonic acid pyrimidinylamides as endothelin receptor antagonists)

RN 394204-96-7 CAPLUS

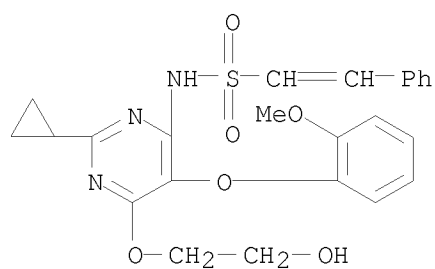
CN Ethenesulfonamide, N-[2-cyclopropyl-6-(2-hydroxyethoxy)-5-(4-methylphenyl)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)

10/581,897 (amended)



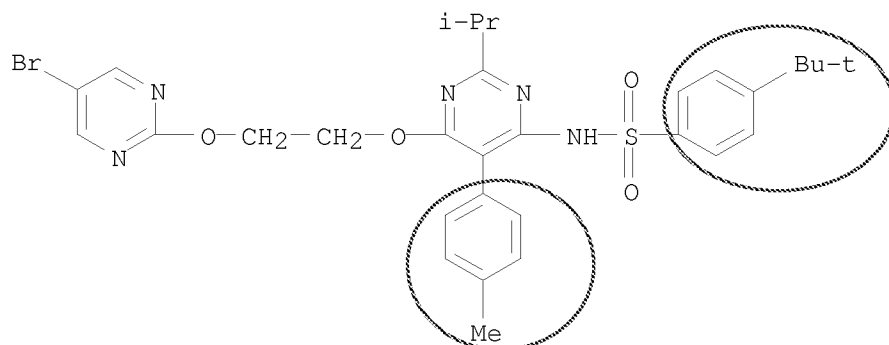
RN 394205-13-1 CAPLUS

CN Ethenesulfonamide, N-[2-cyclopropyl-6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 35 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2001:900083 CAPLUS
 DN 136:325504
 TI Modifications and structure-activity relationships at the 2-position of
 4-sulfonamidopyrimidine derivatives as potent endothelin antagonists
 AU Morimoto, Hiroshi; Shimadzu, Hideshi; Hosaka, Toshihiro; Kawase, Yasushi;
 Yasuda, Kosuke; Kikkawa, Kohei; Yamauchi-Kohno, Rikako; Yamada, Koichiro
 CS Discovery Research Laboratory, Tanabe Seiyaku Co. Ltd., Saitama, Toda,
 335-8505, Japan
 SO Bioorganic & Medicinal Chemistry Letters (2001), Volume Date 2002, 12(1),
 81-84
 CODEN: BMCLE8; ISSN: 0960-894X
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 OS CASREACT 136:325504
 AB To improve water solubility and to study structure-activity relationships, we
 modified the structure of the pyrimidine nucleus of each of a series of
 potent ETA antagonists, I (Ar = p-tolyl, o-methoxyphenoxy), at the
 2-position. In a previous study, each of these antagonists showed an
 extremely high affinity for the ETA receptor in porcine aortic membrane
 (IC₅₀ <0.001 and 0.0039 nM, resp.). Two modification methods, one being
 the addition of organolithium followed by DDQ oxidation and the other being the
 nucleophilic substitution of 2-(methylsulfonyl)pyrimidine, were applied
 individually to synthesize 2-substituted 4-sulfonamidopyrimidine derivs.
 Introduction of aryl, heteroaryl, alkyl, amino, alkoxy, or alkylthio
 groups into the 2-position varied the affinity. Derivs. with hydrophilic
 groups at the 2-position showed higher water solubility but tended to reduce
 the affinity for the ETA receptor.
 IT 169679-36-1P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation)
 (modifications and structure-activity relationships at 2-position of
 4-sulfonamidopyrimidine derivs. as potent endothelin antagonists)
 RN 169679-36-1 CAPLUS
 CN Benzenesulfonamide, N-[6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-2-(1-
 methylethyl)-5-(4-methylphenyl)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA
 INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/581,897 (amended)

L10 ANSWER 36 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2001:798218 CAPLUS
 DN 135:331440
 TI Preparation of substituted sulfonylaminopyrimidines as endothelin receptor antagonists
 IN Boss, Christoph; Bolli, Martin; Clozel, Martine; Fischli, Walter; Weller, Thomas
 PA Actelion Pharmaceuticals Ltd., Switz.
 SO PCT Int. Appl., 124 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001081338	A1	20011101	WO 2001-EP4133	20010411
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	WO 2000-EP3692	W	20000425		

OS MARPAT 135:331440

AB The present invention relates to novel substituted pyrimidines I (e.g. rac-5-isopropyl-N-[5-(2-methoxyphenoxy)-2-(4-pyridyl)-6-(tetrahydrofuran-2-ylmethoxy)-4-pyrimidinyl]-2-pyridinesulfonamide) and pharmaceutically acceptable salts thereof and their use as active ingredients in the preparation of pharmaceutical compns. The invention also concerns related aspects including processes for the preparation of the compds., pharmaceutical compns. containing one or more I and especially their use as endothelin receptor antagonists. In I: R1 = aryl; aryl-lower alkyl; aryl-lower alkenyl; heteroaryl; heteroaryl-lower alkyl. R2 = H; halogen; trifluoromethyl; lower alkyl; lower alkylamino; lower alkyloxy; lower alkylsulfono; lower alkylsulfinyl; lower alkylthio; lower alkylthio-lower alkyl; hydroxy-lower alkyl; hydroxy-lower alkyloxy; lower alkyloxy-lower alkyl; lower alkyloxy-lower alkyloxy; hydroxy-lower alkyloxy-lower alkyl; hydroxy-lower alkyloxy-lower alkyloxy; lower alkyloxy-lower alkyloxy-lower alkyloxy; hydroxy-lower alkylamino; lower alkylamino-lower alkyl; amino; di-lower alkylamino; [N-(hydroxy-lower alkyl)-N-(lower alkyl)]amino; aryl; arylamino; aryl-lower alkylamino; arylthio; aryl-lower alkylthio; aryloxy. Also, R2 = aryl-lower alkyloxy; aryl-lower alkyl; arylsulfinyl; heteroaryl; heteroaryloxy; heteroaryl-lower alkyloxy; heteroaryl-amino; heteroaryl-lower alkylamino; heteroaryl-lower alkylthio; heteroaryl-lower alkyl; heteroarylsulfinyl; heterocyclyl; heterocyclyl-lower alkyloxy; heterocyclyloxy; heterocyclylamino; heterocyclyl-lower alkylamino; heterocyclylthio; heterocyclyl-lower alkylthio; heterocyclyl-lower alkyl; heterocyclylsulfinyl; cycloalkyl; cycloalkyloxy; cycloalkyl-lower alkyloxy; cycloalkylamino; cycloalkyl-lower alkylamino; cycloalkylthio; cycloalkyl-lower alkyl; cycloalkylsulfinyl; alkyloxycarbonyl; carboxy; cycloalkyl-lower alkylthio; cyano; aminocarbonyl. R3 = phenyl; mono, di- or trisubstituted Ph substituted with lower alkyl, lower alkenyl, lower alkyloxy, amino, lower alkylamino, amino-lower alkyl, trifluoromethyl, trifluoromethoxy, halogen, lower alkylthio, hydroxy, hydroxy-lower alkyl,

cyano, carboxy, alkoxycarbonyl, lower alkanoyl, formyl; benzofuranyl; aryl; heteroaryl. X = O; S; NH; CH₂ or a bond; R₄ = N(CH₂)₂Z(CH₂)₂ (Z = O, imino, S, SO, or SO₂) and substituted alkoxy as specified in the claims. Ninety-two example preps. are included, but the methods of preparation are not claimed. IC₅₀ (concentration of antagonist inhibiting 50% of the

specific binding of ET-1) values were determined for some of the claimed compds. and were as low as 6 nM (rac-5-methylpyridine-2-sulfonic acid [5-(2-methoxyphenoxy)-6-(tetrahydrofuran-2-ylmethoxy)-2-[2-(5-thioxo-4,5-dihydro-[1,2,4]oxadiazol-3-yl)pyridin-4-yl]pyrimidin-4-yl]amide). Also, pA₂ (neg. value of logarithm of antagonist concentration that induces 2-fold shift in concentration of endothelin needed to get half-maximal contraction on isolated rat aortic rings or rat tracheal rings) are reported for 5 I.

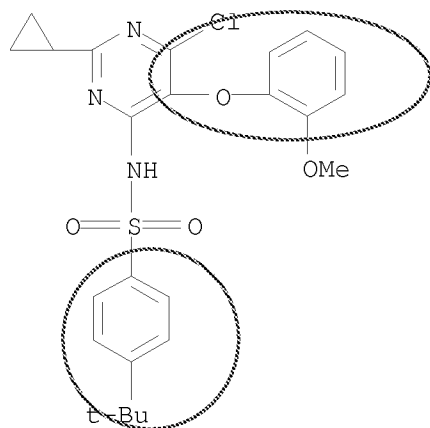
IT 150727-73-4P, 4-tert-Butyl-N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]benzenesulfonamide 329924-30-3P, 5-Isopropyl-N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-2-pyridinesulfonamide

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of substituted sulfonylaminopyrimidines as endothelin receptor antagonists)

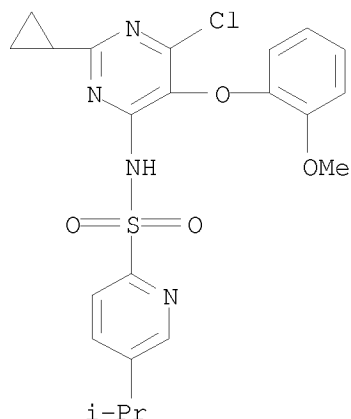
RN 150727-73-4 CAPLUS

CN Benzenesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



RN 329924-30-3 CAPLUS

CN 2-Pyridinesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



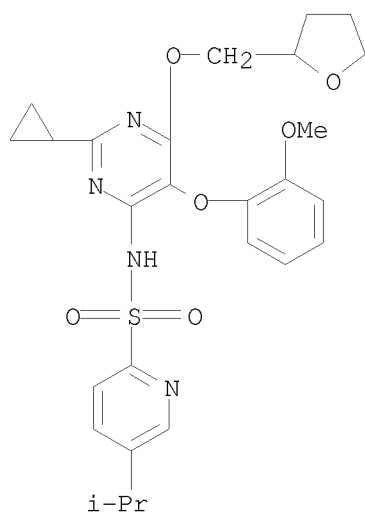
IT 370105-27-4P, Rac-5-isopropyl-N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-(tetrahydrofuran-2-ylmethoxy)-4-pyrimidinyl]-2-pyridinesulfonamide 370105-28-5P, 5-Isopropyl-N-[2-cyclopropyl-6-cyclopropylmethoxy-5-(2-methoxyphenoxy)-4-pyrimidinyl]-2-pyridinesulfonamide 370105-29-6P, Rac-5-isopropyl-N-[2-cyclopropyl-6-(1-cyclopropylethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-2-pyridinesulfonamide 370105-71-8P, Rac-4-tert-butyl-N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-(tetrahydrofuran-2-ylmethoxy)-4-pyrimidinyl]benzenesulfonamide 370105-72-9P, 4-tert-Butyl-N-[2-cyclopropyl-6-cyclopropylmethoxy-5-(2-methoxyphenoxy)-4-pyrimidinyl]benzenesulfonamide 370105-73-0P, Rac-4-tert-butyl-N-[2-cyclopropyl-6-(1-cyclopropylethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]benzenesulfonamide

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of substituted sulfonylaminopyrimidines as endothelin receptor antagonists)

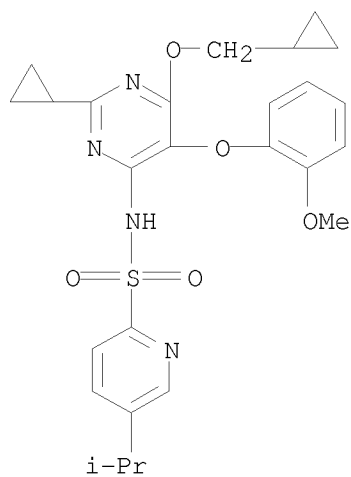
RN 370105-27-4 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[(tetrahydro-2-furanyl)methoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



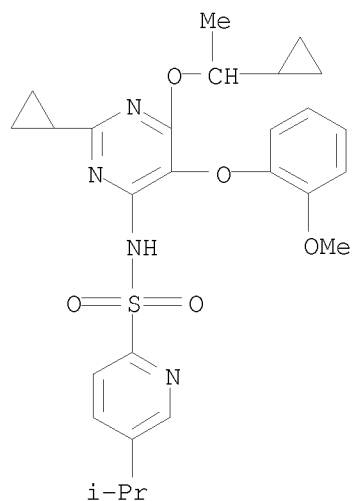
RN 370105-28-5 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-(cyclopropylmethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



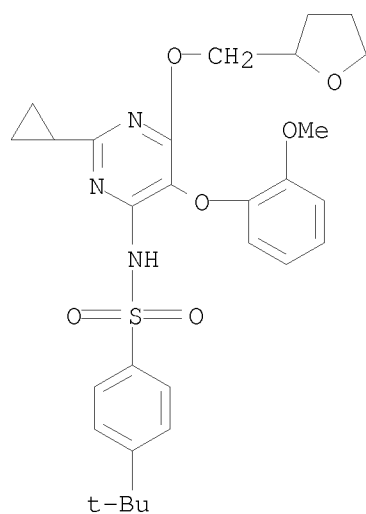
RN 370105-29-6 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-(1-cyclopropylethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



RN 370105-71-8 CAPLUS

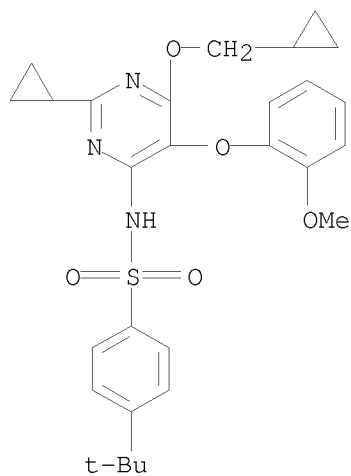
CN Benzenesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[(tetrahydro-2-furanyl)methoxy]-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



RN 370105-72-9 CAPLUS

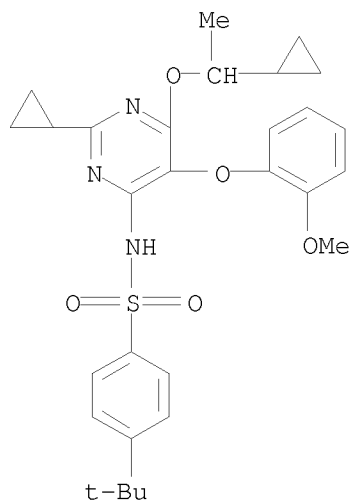
CN Benzenesulfonamide, N-[2-cyclopropyl-6-(cyclopropylmethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)

10/581,897 (amended)



RN 370105-73-0 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-(1-cyclopropylethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 37 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2001:798215 CAPLUS
 DN 135:344498
 TI Preparation of N-(pyrimidin-4-yl) (hetero)arylsulfonamides having
 endothelin-antagonist activity
 IN Bolli, Martin; Boss, Christoph; Clozel, Martine; Fischli, Walter; Weller,
 Thomas
 PA Actelion Pharmaceuticals Ltd., Switz.
 SO PCT Int. Appl., 96 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001081335	A1	20011101	WO 2001-EP4136	20010411
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI WO 2000-EP3585 W 20000420

OS MARPAT 135:344498

AB The title compds. [I; R1 = (hetero)aryl; R2 = (CH2)nCRa:CRbRc, (CH2)nC.tplbond.CRb; R3 = (un)substituted Ph, benzofuranyl, (hetero)aryl; R4 = H, halo, CF3, etc.; X = O, S, NH, CH2, a bond; Ra, Rc = H, alkyl; Rb = H, alkyl, aryl, etc.; n = 1-6], useful as endothelin receptor antagonists, were prepared Thus, treatment of propargyl alc. with NaH in THF followed by addition of the pyrimidine II [R = Cl] (multi-step preparation given) afforded the title compound II [R = OCH2C.tplbond.CH] which showed IC50 of 125 nM and of 823 nM against endothelin ETA and ETB binding to membranes from CHO cells, resp.

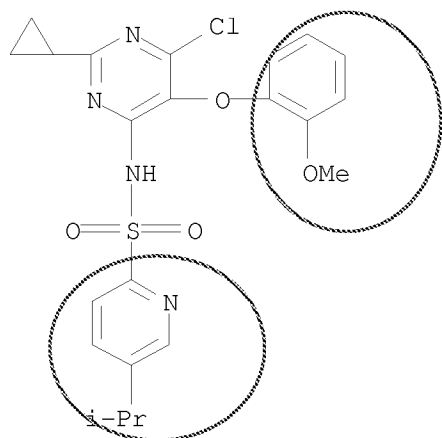
IT 329924-30-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of N-(pyrimidin-4-yl) (hetero)arylsulfonamides having endothelin-antagonist activity)

RN 329924-30-3 CAPLUS

CN 2-Pyridinesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



OSC.G	5	THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
RE.CNT	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 38 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2001:371565 CAPLUS

DN 134:366893

TI Preparation of 5-halogeno-6-(4-trifluoromethylphenyl)-4-aminopyrimidines for prevention and treatment of immunogenic inflammation or rheumatic diseases

IN Murata, Akiya; Kondo, Masanori; Ohno, Kazunori; Tanaka, Masayasu; Ito, Masato

PA Dainippon Pharmaceutical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2001139561	A	20010522	JP 1999-326310	19991117
PRAI	JP 1999-326310		19991117		

OS MARPAT 134:366893

AB The title compds. [I; R1 = H, lower alkyl, mono- or dihydroxy-lower alkyl, mono- or dialkoxy-lower alkyl, amino-lower alkyl, mono- or di(lower alkyl)amino-lower alkyl, (un)substituted phenyl-lower alkyl; R2 = lower alkyl, mono- or dihydroxy-lower alkyl, mono or dialkoxy-lower alkyl, mono- or di(lower alkyl)-lower alkyl, (un)substituted phenyl-lower alkyl; or NR1R2 together represents (un)substituted substituted cyclic group optionally substituted with HO, lower alkoxy, lower alkyl, mono- or dihydroxy-lower alkyl, mono- or di(lower alkyl)-amino-lower alkyl, mono- or di(lower alkyl)-lower alkyl; R4 = lower alkyl, cycloalkyl] are prepared These compds. exhibit excellent antirheumatic effect and are useful for the treatment or prevention of rheumatic diseases such as chronic articular rheumatism, Behcet's disease, and ankylosing spondylitis or autoimmunity inflammations such as multiple sclerosis, systemic lupus erythematosus, and Sjogren's syndrome. Thus, a mixture of 4-chloro-2-isopropyl-6-(4-trifluoromethylphenyl)pyrimidine 1.0, 2-aminoethanol 0.37, and Et3N 0.4 g was heated at 130° under reflux for 3 h to give 1.0 g 2-(2-Isopropyl-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino)ethanol which (0.5 g) was chlorinated by N-chlorosuccinimide in 10 mL AcOEt at 90° for 3 h to give 0.9 g 2-(5-chloro-2-isopropyl-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino)ethanol (II). In a collagen-induced articular arthritis model (J. Exp. Med., 146,857, 1977), II and 1-(5-chloro-2-isopropyl-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino)-2-propanol (III) were administered to mice at 10 mg/kg p.o. for 5 days in one week, which inhibited articular arthritis by 63.0 and 72.2%, resp. Tablet, capsule, and dispersant formulations containing III were also prepared

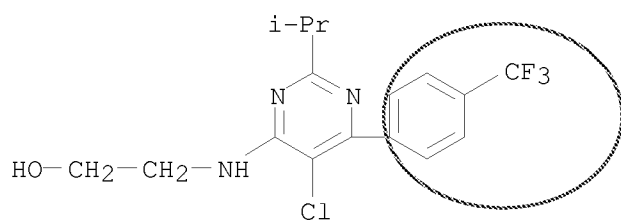
IT	340293-76-7P	340293-78-9P	340293-80-3P
	340293-82-5P	340293-84-7P	340293-86-9P
	340293-88-1P	340293-90-5P	

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of halo(trifluoromethylphenyl)aminopyrimidines for prevention and treatment of immunogenic inflammation)

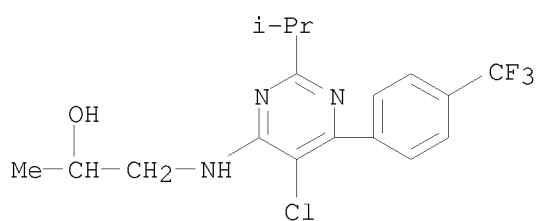
RN 340293-76-7 CAPLUS

CN Ethanol, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]- (CA INDEX NAME)



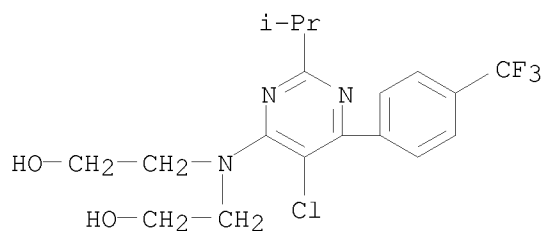
RN 340293-78-9 CAPLUS

CN 2-Propanol, 1-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]- (CA INDEX NAME)



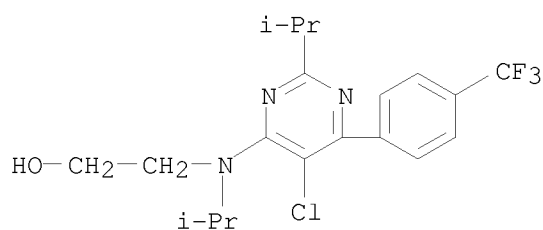
RN 340293-80-3 CAPLUS

CN Ethanol, 2,2'-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]imino]bis- (CA INDEX NAME)



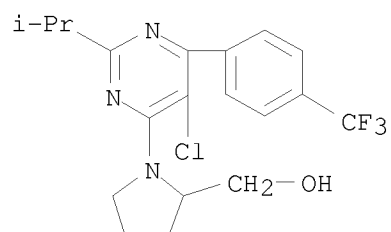
RN 340293-82-5 CAPLUS

CN Ethanol, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl](1-methylethyl)amino]- (CA INDEX NAME)



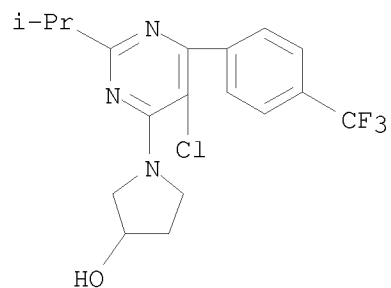
RN 340293-84-7 CAPLUS

CN 2-Pyrrolidinemethanol, 1-[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)



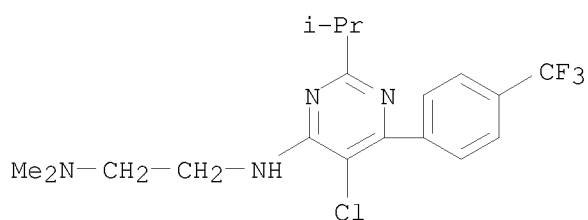
RN 340293-86-9 CAPLUS

CN 3-Pyrrolidinol, 1-[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)



RN 340293-88-1 CAPLUS

CN 1,2-Ethanediamine, N2-[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]-N1,N1-dimethyl-, hydrochloride (1:1) (CA INDEX NAME)

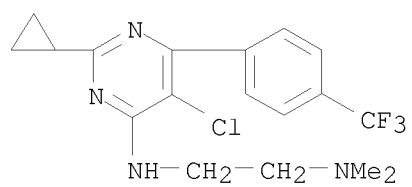


● HCl

RN 340293-90-5 CAPLUS

CN 1,2-Ethanediamine, N2-[5-chloro-2-cyclopropyl-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]-N1,N1-dimethyl-, hydrochloride (1:1) (CA INDEX NAME)

10/581,897 (amended)



● HCl

L10 ANSWER 39 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2001:369688 CAPLUS

DN 134:361359

TI [2-Alkyl-5-halogeno-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino]
acetamide derivatives for treatment of autoimmune diseases

IN Murata, Akiya; Ohno, Kazunori; Tanaka, Masayasu; Ito, Mari

PA Dainippon Pharmaceutical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001139472	A	20010522	JP 1999-326314	19991117
PRAI	JP 1999-326314		19991117		
OS	MARPAT 134:361359				

AB [2-Alkyl-5-halogeno-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino]
acetamide derivs. (I; A = C1-6 alkyl, C3-8 cyclo alkyl; R1, R2 = H, C
alkyl, C cyclo alkyl; X = halogen) and their pharmaceutically acceptable
salts are claimed for treatment of autoimmune diseases, including
rheumatoid, systemic lupus erythematosus, Sjogren's syndrome, etc.
Formulation examples of I tablets, capsules, and powders were given.

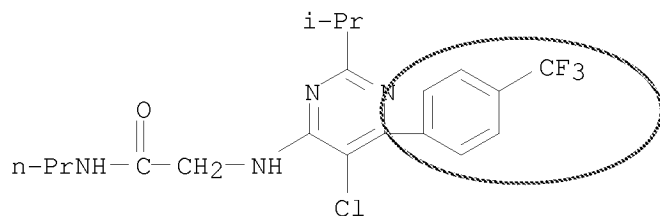
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	251299-11-3P	251299-12-4P	251299-13-5P
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	251299-30-6P	251299-31-7P	

RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)

([2-Alkyl-5-halogeno-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino]
acetamide derivs. for treatment of autoimmune diseases)

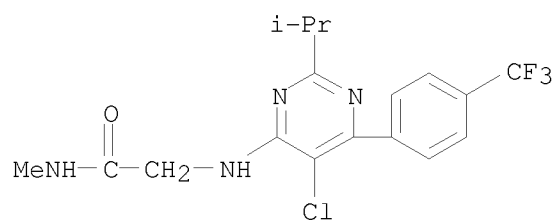
RN 251299-02-2 CAPLUS

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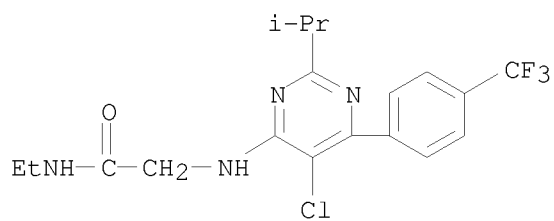
RN 251299-03-3 CAPLUS

CN Acetamide, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-
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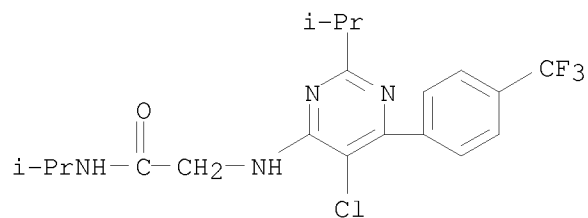
RN 251299-04-4 CAPLUS

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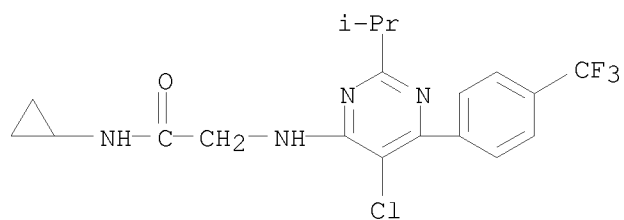
RN 251299-05-5 CAPLUS

CN Acetamide, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-(1-methylethyl)- (CA INDEX NAME)



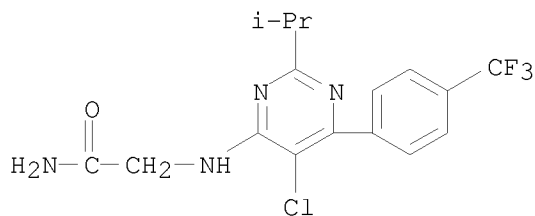
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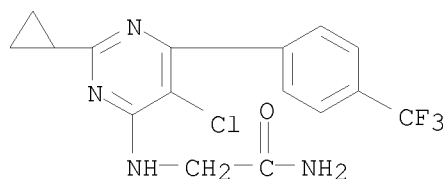
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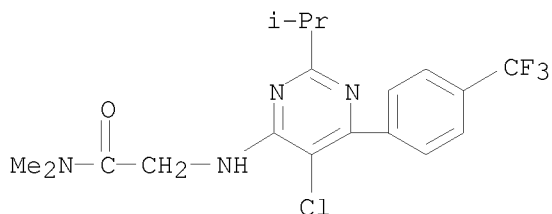
RN 251299-08-8 CAPLUS

CN Acetamide, 2-[[5-chloro-2-cyclopropyl-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]- (CA INDEX NAME)



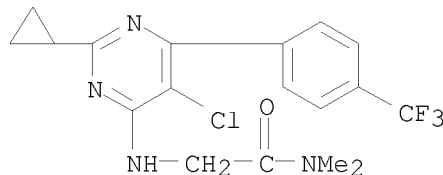
RN 251299-09-9 CAPLUS

CN Acetamide, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N,N-dimethyl- (CA INDEX NAME)



RN 251299-10-2 CAPLUS

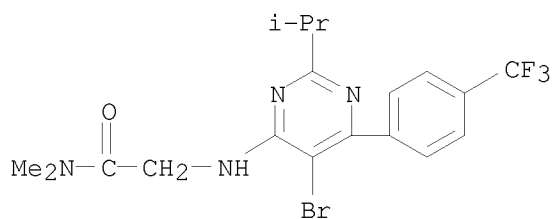
CN Acetamide, 2-[[5-chloro-2-cyclopropyl-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N,N-dimethyl- (CA INDEX NAME)



RN 251299-11-3 CAPLUS

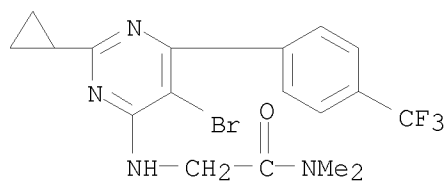
CN Acetamide, 2-[[5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-

pyrimidinyl]amino]-N,N-dimethyl- (CA INDEX NAME)



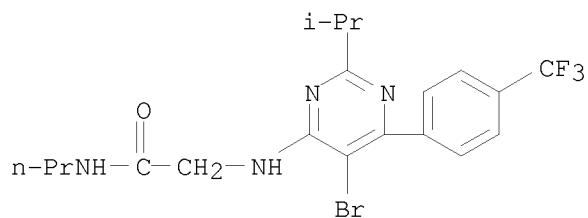
RN 251299-12-4 CAPLUS

CN Acetamide, 2-[[5-bromo-2-cyclopropyl-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N,N-dimethyl- (CA INDEX NAME)



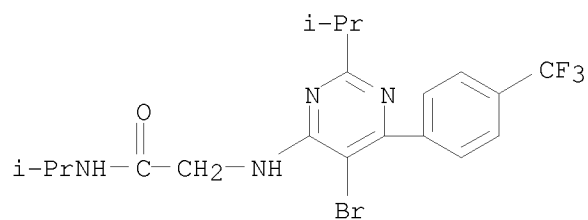
RN 251299-13-5 CAPLUS

CN Acetamide, 2-[[5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-propyl- (CA INDEX NAME)



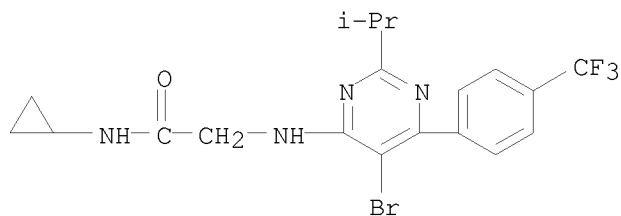
RN 251299-14-6 CAPLUS

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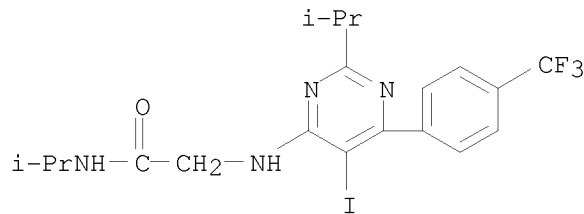
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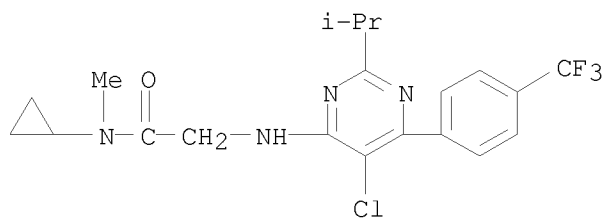
RN 251299-16-8 CAPLUS

CN Acetamide, 2-[[5-iodo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-(1-methylethyl)- (CA INDEX NAME)



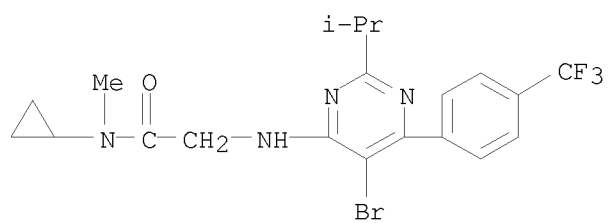
RN 251299-30-6 CAPLUS

CN Acetamide, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-cyclopropyl-N-methyl- (CA INDEX NAME)



RN 251299-31-7 CAPLUS

CN Acetamide, 2-[[5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-cyclopropyl-N-methyl- (CA INDEX NAME)



L10 ANSWER 40 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 2001:185734 CAPLUS
 DN 134:237487
 TI Preparation of pyrimidine bis-sulfonamides as endothelin antagonists
 IN Bolli, Martin; Boss, Christoph; Clozel, Martine; Fischli, Walter
 PA Actelion Pharmaceuticals Ltd, Switz.
 SO PCT Int. Appl., 92 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001017976	A1	20010315	WO 2000-EP7999	20000816
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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	EP 1137642	A1	20011004	EP 2000-956456	20000816
	EP 1137642	B1	20071205		
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	NZ 512526	A	20040130	NZ 2000-512526	20000816
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	ES 2295048	T3	20080416	ES 2000-956456	20000816
	CN 100424079	C	20081008	CN 2000-802515	20000816
	ZA 2001005130	A	20020923	ZA 2001-5130	20010621
	NO 2001003586	A	20010720	NO 2001-3586	20010720
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	US 6596719	B1	20030722	US 2001-31555	20010816
PRAI	WO 1999-EP6485	A	19990903		
	WO 2000-EP1222	A	20000215		
	WO 2000-EP7999	W	20000816		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 134:237487

AB 4-(Sulfonylamino)-6-(sulfonylaminoalkoxy)pyrimidine derivs. [I; R1 represents aryl, aryl-lower alkyl, aryl-lower alkenyl, heteroaryl, heteroaryl-lower alkyl; R2 represents lower alkyl, trifluoromethyl, lower alkoxy-lower alkyl, lower alkenyl, lower alkynyl, aryl, aryl-lower alkyl, aryl-lower alkenyl, heterocyclyl, heterocyclyl-lower alkyl, heteroaryl, etc.; R3 represents (un)substituted Ph, benzofuranyl, aryl, heteroaryl; R4 represents hydrogen, halogen, trifluoromethyl, lower alkyl, lower alkylamino, lower alkyloxy, lower alkylsulfono, lower alkylsulfinyl, lower alkylthio, lower alkylthio-lower alkyl, hydroxy-lower alkyl, lower alkyloxy-lower alkyl, hydroxy-lower alkyloxy-lower alkyl, hydroxy-lower alkylamino, lower alkylamino-lower alkyl, amino, etc.; R6 represents

hydrogen, lower alkyl, cycloalkyl, heterocyclyl, heteroaryl, aryl, cycloalkyl-lower alkyl, heterocyclyl-lower alkyl, heteroaryl-lower alkyl, aryl-lower alkyl, lower alkoxy-lower alkyl, lower alkylthio-lower alkyl, etc.; n represents the nos. 2,3,4 and 5; X represents oxygen, sulfur, NH, CH₂, or a bond] and pure diastereomers, mixts. of diastereomers, diastereomeric racemates, mixts. of diastereomeric racemates and the meso-forms and pharmaceutically acceptable salts thereof are prepared. Because of their ability to inhibit the endothelin binding, the described compds. can be used for treatment of diseases which are associated with an increase in vasoconstriction, proliferation or inflammation due to endothelin. Examples of such diseases are hypertension, coronary diseases, myocardial insufficiency, renal and myocardial ischemia, renal failure, cerebral ischemia, dementia, migraine, subarachnoidal hemorrhage, Raynaud's syndrome, portal hypertension and pulmonary hypertension. They can also be used for atherosclerosis, prevention of restenosis after balloon or stent angioplasty, inflammation, stomach and duodenal ulcer, cancer, prostatic hypertrophy, erectile dysfunction, hearing loss, amaurosis, chronic bronchitis, asthma, gram neg. septicemia, shock, sickle cell anemia, glomerulonephritis, renal colic, glaucoma, therapy and prophylaxis of diabetic complications, complications of vascular or cardiac surgery or after organ transplantation, complications of cyclosporin treatment, as well as other diseases presently known to be related to endothelin. Thus, 4-tert-butyl-N-[6-(3-aminopropoxy)-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]benzenesulfonamide was reacted with thiophene-2-sulfonyl chloride in dry dichloromethane and dry DMF in the presence of Hunig's base at room temperature for 12 h to give 4-tert-butyl-N-[6-[3-(thiophene-2-sulfonylamino)propoxy]-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]benzenesulfonamide (II). II inhibited the binding of [¹²⁵I]endothelin-1 to microsomal membranes from recombinant CHO cells expressing recombinant EtA or EtB receptor with IC₅₀ of 14.8 and 1.86 nM for EtA and EtB receptor, resp.

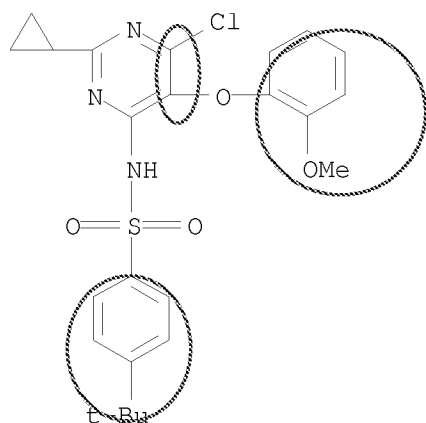
IT 150727-73-4P 329924-30-3P 329924-32-5P
329924-39-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of pyrimidine sulfonamides as endothelin antagonists for diseases related to endothelin)

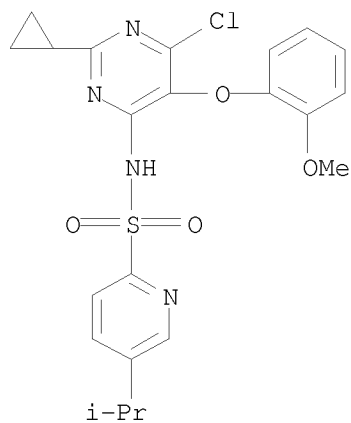
RN 150727-73-4 CAPLUS

CN Benzenesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



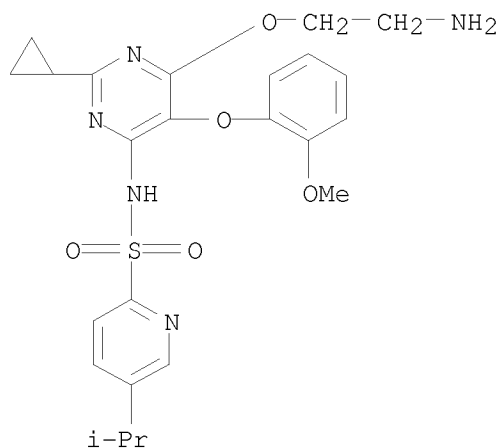
RN 329924-30-3 CAPLUS

CN 2-Pyridinesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



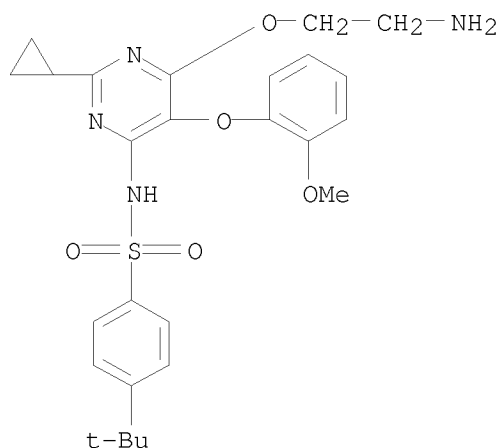
RN 329924-32-5 CAPLUS

CN 2-Pyridinesulfonamide, N-[6-(2-aminoethoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



RN 329924-39-2 CAPLUS

CN Benzenesulfonamide, N-[6-(2-aminoethoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



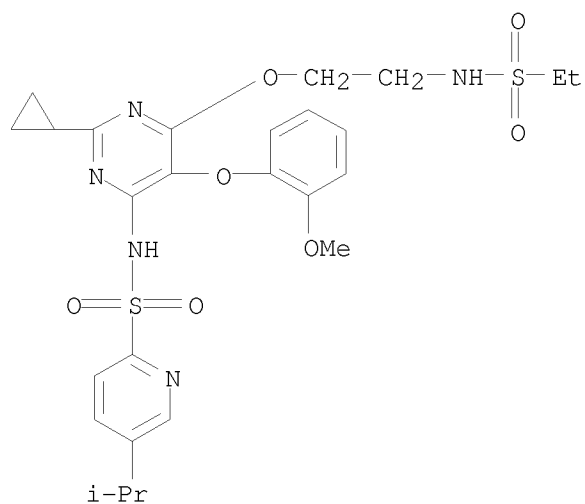
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	329925-29-3P	329925-30-6P	

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of pyrimidine sulfonamides as endothelin antagonists for diseases related to endothelin)

RN 329924-34-7 CAPLUS

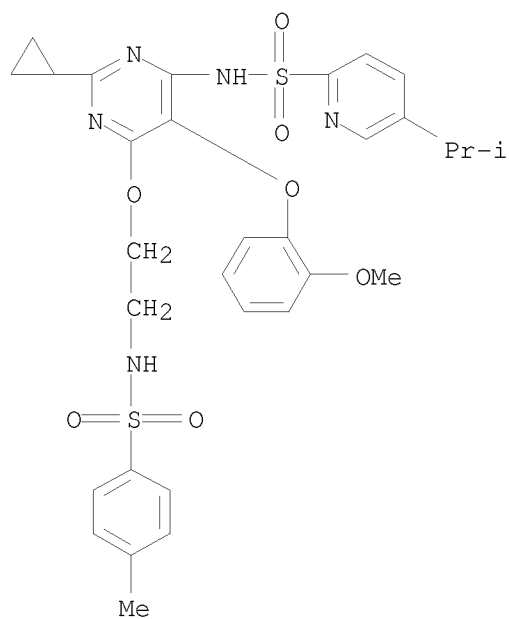
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)

10/581,897 (amended)



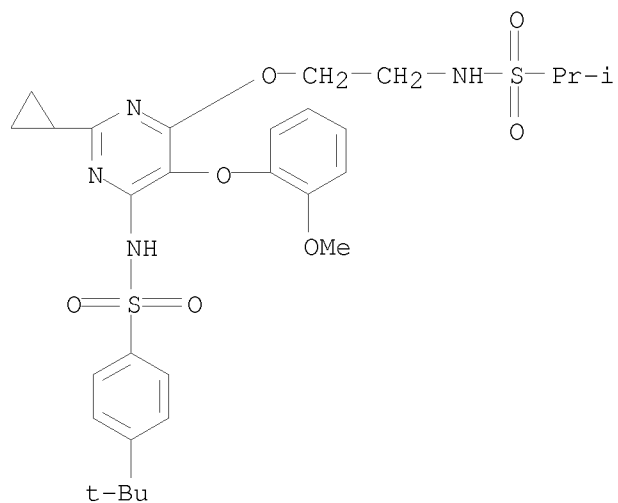
RN 329924-36-9 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[[4-methylphenyl)sulfonyl]amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



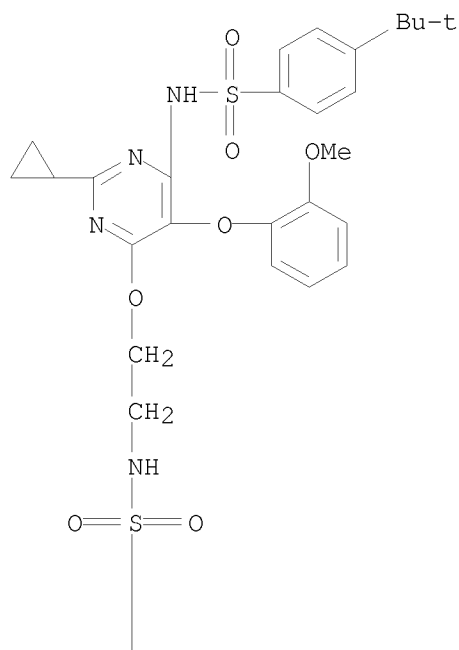
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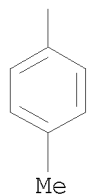
CN Benzenesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[[1-methylethyl)sulfonyl]amino]ethoxy]-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



RN 329924-43-8 CAPLUS
 CN Benzenesulfonamide, N-[2-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl]-4-methyl- (CA INDEX NAME)

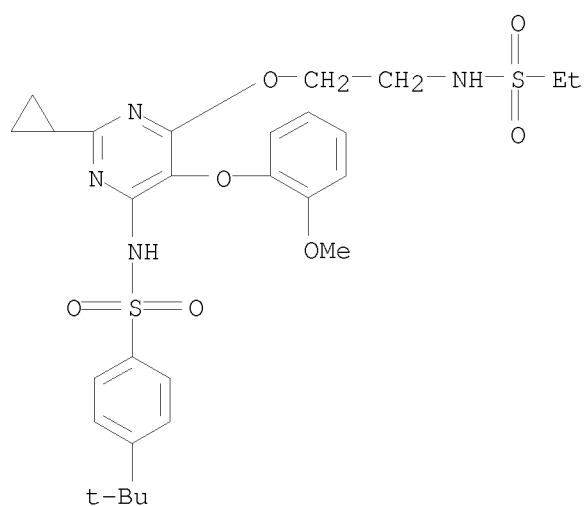
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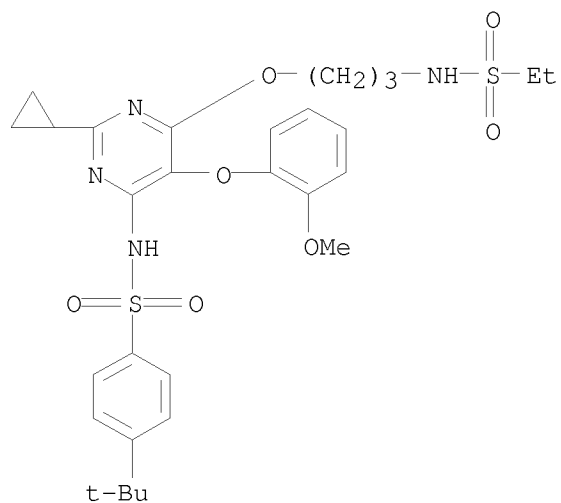
RN 329924-54-1 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



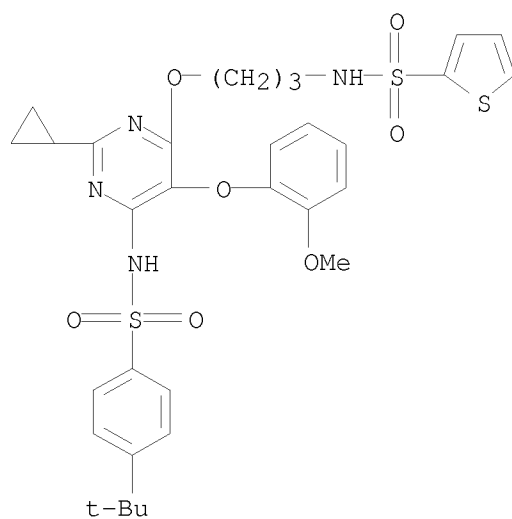
RN 329925-16-8 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-[3-[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



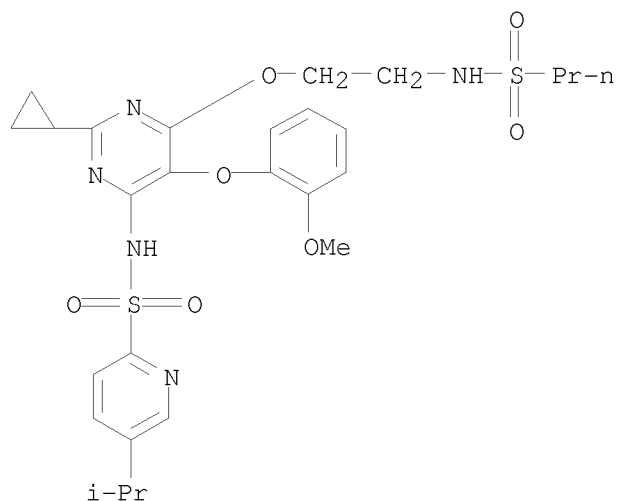
RN 329925-17-9 CAPLUS

CN 2-Thiophenesulfonamide, N-[3-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]propyl]- (CA INDEX NAME)



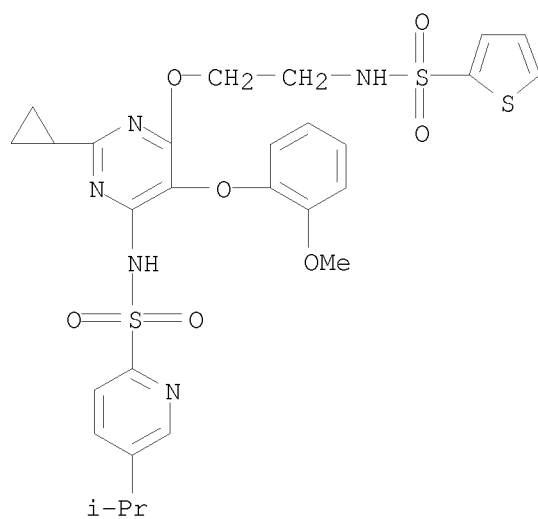
RN 329925-20-4 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(propylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



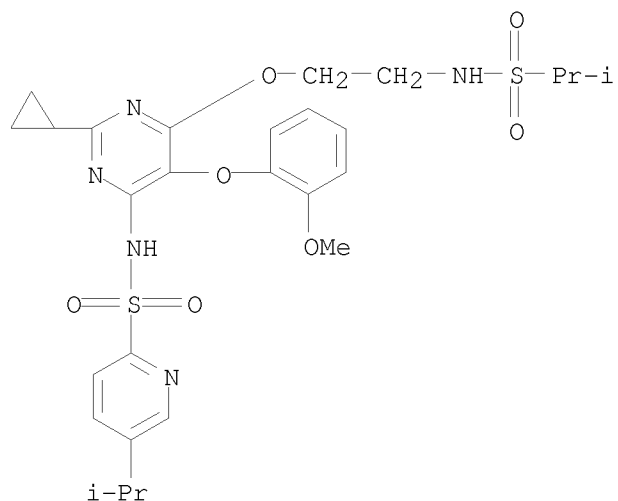
RN 329925-21-5 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(2-thienylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



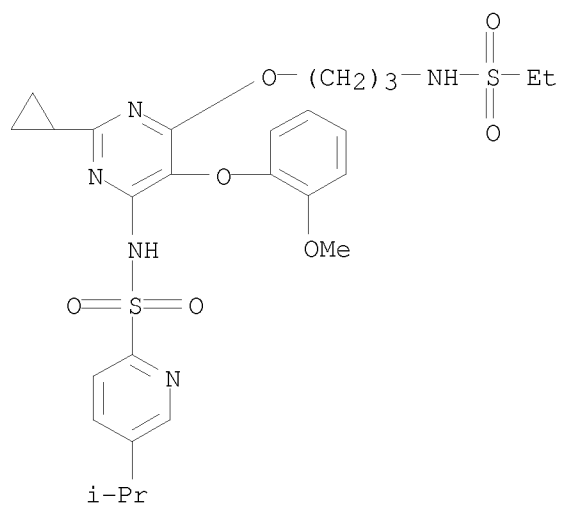
RN 329925-22-6 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(1-methylethyl)sulfonyl]amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



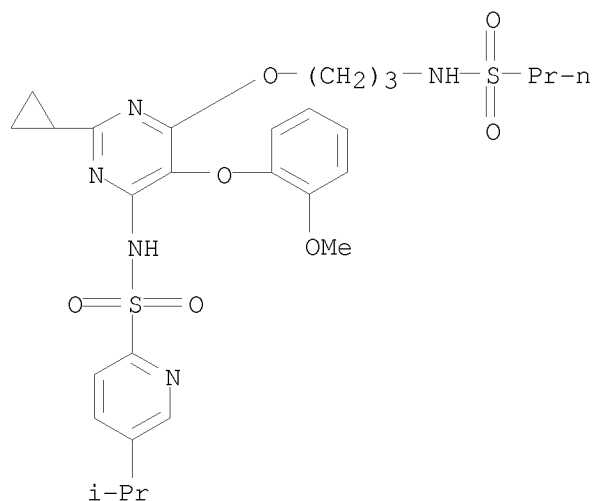
RN 329925-27-1 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[3-
[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-
methylethyl)- (CA INDEX NAME)



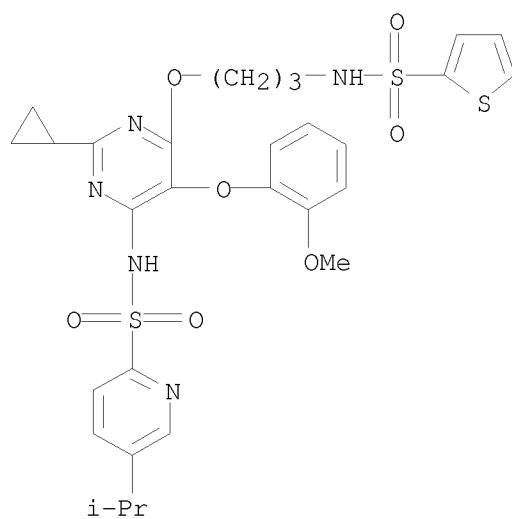
RN 329925-28-2 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-
[(propylsulfonyl)amino]propoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA
INDEX NAME)



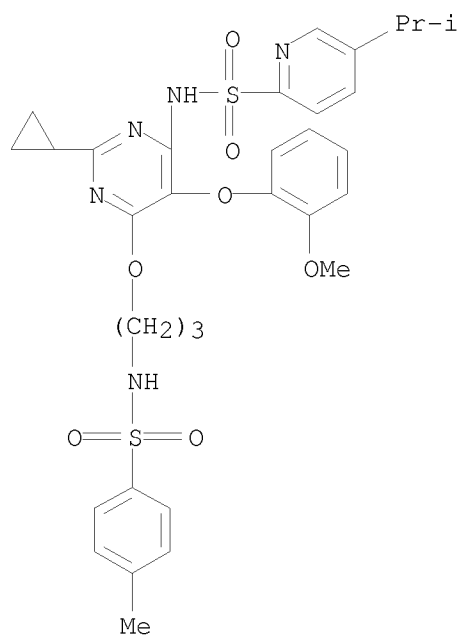
RN 329925-29-3 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(2-thienylsulfonyl)amino]propoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)

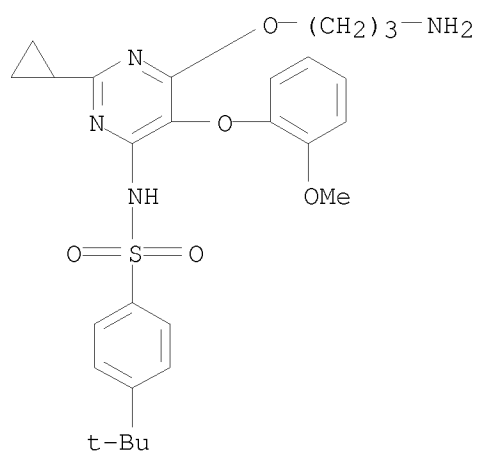


RN 329925-30-6 CAPLUS

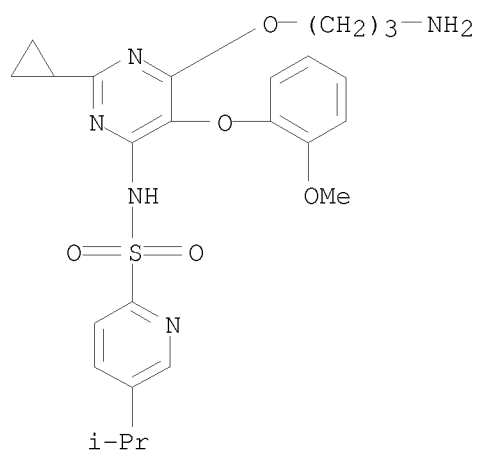
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(4-methylphenyl)sulfonyl]amino]propoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



IT 329925-15-7 329925-26-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant; preparation of pyrimidine sulfonamides as endothelin antagonists
 for diseases related to endothelin)
 RN 329925-15-7 CAPLUS
 CN Benzenesulfonamide, N-[6-(3-aminopropoxy)-2-cyclopropyl-5-(2-
 methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



RN 329925-26-0 CAPLUS
 CN 2-Pyridinesulfonamide, N-[6-(3-aminopropoxy)-2-cyclopropyl-5-(2-
 methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



OSC.G	7	THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
RE.CNT	4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 41 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1999:753220 CAPLUS

DN 132:12321

TI Preparation of [2-alkyl-5-halogeno-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino]acetamide derivatives for treatment and prevention of immune inflammatory diseases

IN Murata, Teruya; Ohno, Kazunori; Tanaka, Masayasu; Itoh, Mari

PA Dainippon Pharmaceutical Co., Ltd., Japan

SO PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9959980	A1	19991125	WO 1999-JP2415	19990511
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	JP 2002241369	A	20020828	JP 1998-153776	19980518
	AU 9936299	A	19991206	AU 1999-36299	19990511
PRAI	JP 1998-153776	A	19980518		
	WO 1999-JP2415	W	19990511		

OS MARPAT 132:12321

AB Claimed are [2-Alkyl-5-halogeno-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino]acetamide derivs. represented by formula (I; A = C1-6 alkyl, C3-8 cycloalkyl; R1, R2 = H, C1-6 alkyl, C3-8 cycloalkyl; X = halo) or pharmacol. acceptable salts thereof; a process for producing the derivs.; a medicinal composition containing any of the derivs. as the active ingredient; and intermediates for the derivs. The compds. have an excellent antirheumatic activity and are lowly toxic. They are hence useful as remedial and prophylactic agents for rheumatic diseases such as rheumatoid arthritis, Behcet's disease, and ankylosing spondylitis and immune inflammatory diseases such as multiple sclerosis, systemic lupus erythematosus, and autoimmune inflammatory diseases, e.g., Sjogren's syndrome. Thus, a mixture of 4-chloro-isopropyl-6-(4-(trifluoromethyl)phenyl)pyrimidine, 2-amino-N-propylacetamide, and Et3N was refluxed at 150° for 3 h to give I (R1 = H, R2 = n-Pr, X = Cl, A = i-Pr) (II). II and I (R1 = R2 = Me, X = Cl, A = i-Pr) in vivo inhibited type II collagen-induced arthritis in mice by 90 and 100%, resp., at 10 mg/kg and 43 and 83%, resp., at 3 mg/kg. Pharmaceutical formulations containing I were described.

IT	251299-02-2P	251299-03-3P	251299-04-4P
	251299-05-5P	251299-06-6P	251299-07-7P
	251299-08-8P	251299-09-9P	251299-10-2P
	251299-11-3P	251299-12-4P	251299-13-5P
	251299-14-6P	251299-15-7P	251299-16-8P
	251299-30-6P	251299-31-7P	

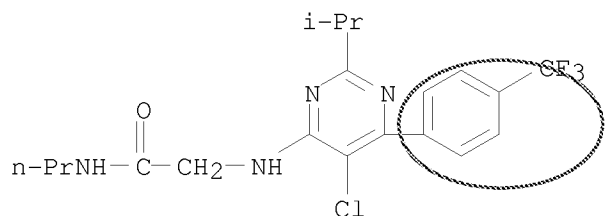
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Preparation of [alkylhalo(trifluoromethylphenyl)pyrimidinylamino]acetamide

derivs. for treatment and prevention of immune inflammatory diseases)

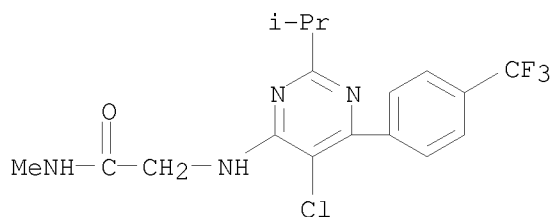
RN 251299-02-2 CAPLUS

CN Acetamide, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-propyl- (CA INDEX NAME)



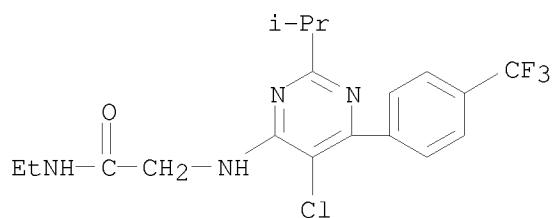
RN 251299-03-3 CAPLUS

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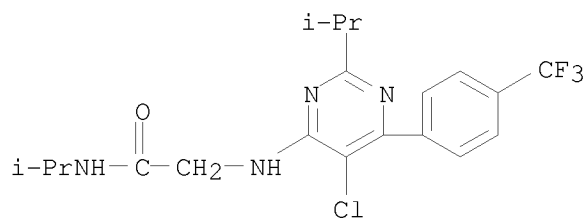
RN 251299-04-4 CAPLUS

CN Acetamide, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-ethyl- (CA INDEX NAME)



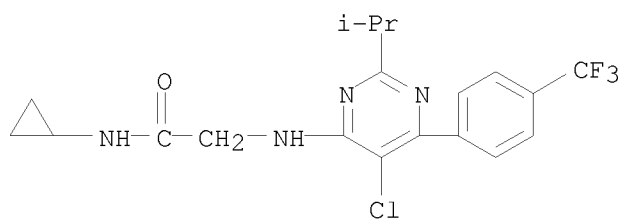
RN 251299-05-5 CAPLUS

CN Acetamide, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-(1-methylethyl)- (CA INDEX NAME)



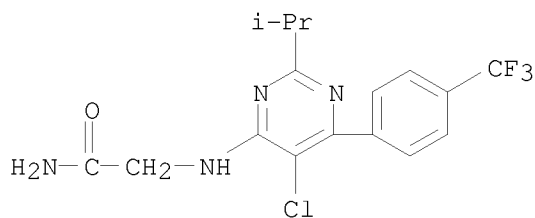
RN 251299-06-6 CAPLUS

CN Acetamide, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-cyclopropyl- (CA INDEX NAME)



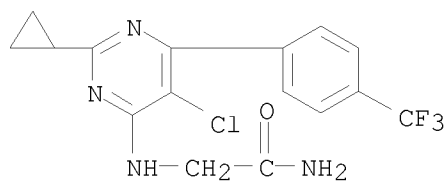
RN 251299-07-7 CAPLUS

CN Acetamide, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]- (CA INDEX NAME)



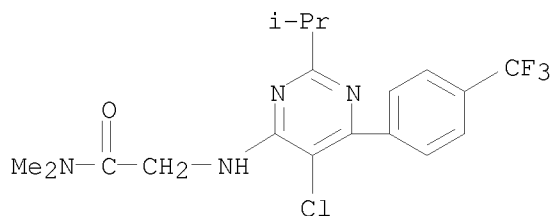
RN 251299-08-8 CAPLUS

CN Acetamide, 2-[[5-chloro-2-cyclopropyl-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]- (CA INDEX NAME)



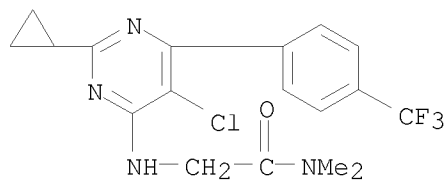
RN 251299-09-9 CAPLUS

CN Acetamide, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N,N-dimethyl- (CA INDEX NAME)



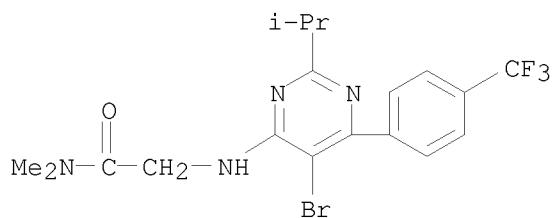
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CN Acetamide, 2-[[5-chloro-2-cyclopropyl-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N,N-dimethyl- (CA INDEX NAME)



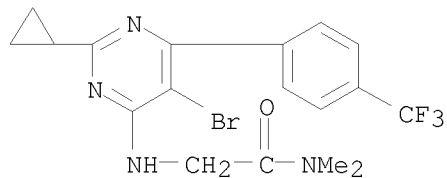
RN 251299-11-3 CAPLUS

CN Acetamide, 2-[[5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N,N-dimethyl- (CA INDEX NAME)



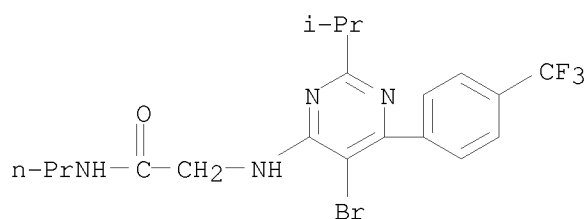
RN 251299-12-4 CAPLUS

CN Acetamide, 2-[[5-bromo-2-cyclopropyl-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N,N-dimethyl- (CA INDEX NAME)



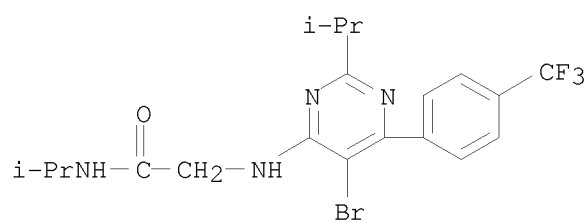
RN 251299-13-5 CAPLUS

CN Acetamide, 2-[[5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-propyl- (CA INDEX NAME)



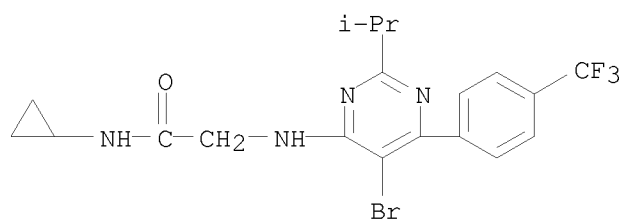
RN 251299-14-6 CAPLUS

CN Acetamide, 2-[[5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-(1-methylethyl)- (CA INDEX NAME)



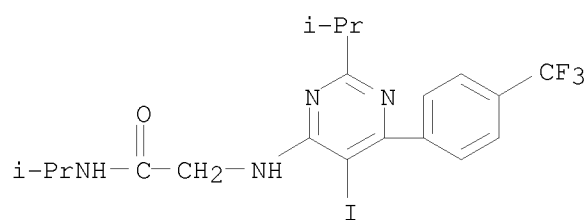
RN 251299-15-7 CAPLUS

CN Acetamide, 2-[[5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-cyclopropyl- (CA INDEX NAME)



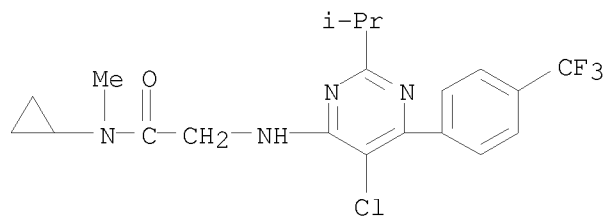
RN 251299-16-8 CAPLUS

CN Acetamide, 2-[[5-iodo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-(1-methylethyl)- (CA INDEX NAME)



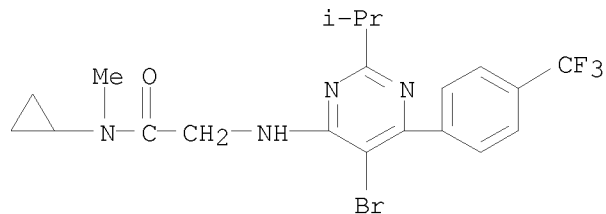
RN 251299-30-6 CAPLUS

CN Acetamide, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-cyclopropyl-N-methyl- (CA INDEX NAME)



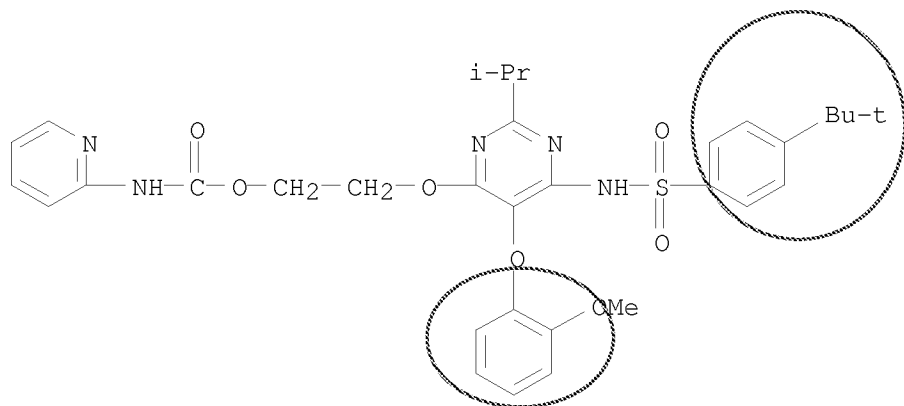
RN 251299-31-7 CAPLUS

CN Acetamide, 2-[[5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-cyclopropyl-N-methyl- (CA INDEX NAME)



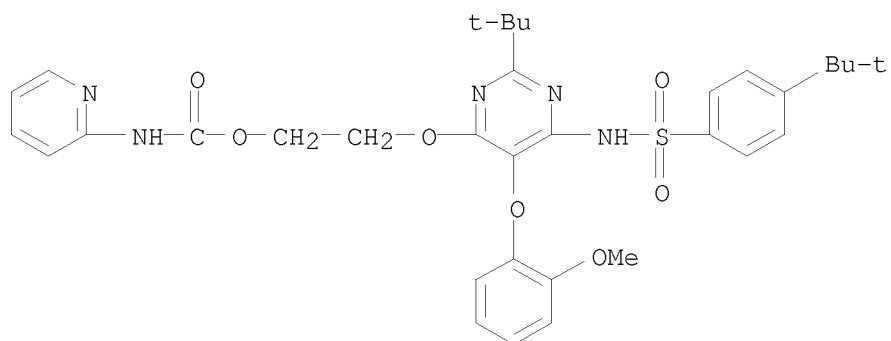
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 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 42 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1997:633849 CAPLUS
 DN 127:307357
 OREF 127:60113a,60116a
 TI Discovery of RO 48-5695: a potent mixed endothelin receptor antagonist optimized from bosentan
 AU Neidhart, Werner; Breu, Volker; Burri, Kaspar; Clozel, Martine; Hirth, Georges; Klinkhammer, Uwe; Giller, Thomas; Ramuz, Henri
 CS Pharma Div., Preclinical Res., F. Hoffmann-La Roche Ltd., Basel, CH-4070, Switz.
 SO Bioorganic & Medicinal Chemistry Letters (1997), 7(17), 2223-2228
 CODEN: BMCLE8; ISSN: 0960-894X
 PB Elsevier
 DT Journal
 LA English
 AB Implementation of a pyridylcarbamoyl group and an isopropylpyridylsulfonamide substituent as key components in the scaffold of Bosentan resulted in the identification of the potent orally active endothelin receptor antagonist Ro 48-5695 (I). It shows affinities for ETA and ETB receptors in the low nanomolar range and high functional antagonistic potency in vitro.
 IT 167402-12-2P 167402-14-4P 167402-15-5P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (synthesis of RO 48-5695, a potent mixed endothelin receptor antagonist optimized from bosentan)
 RN 167402-12-2 CAPLUS
 CN Carbamic acid, 2-pyridinyl-, 2-[[[6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-2-(1-methylethyl)-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)



RN 167402-14-4 CAPLUS
 CN Carbamic acid, 2-pyridinyl-, 2-[[[2-(1,1-dimethylethyl)-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)

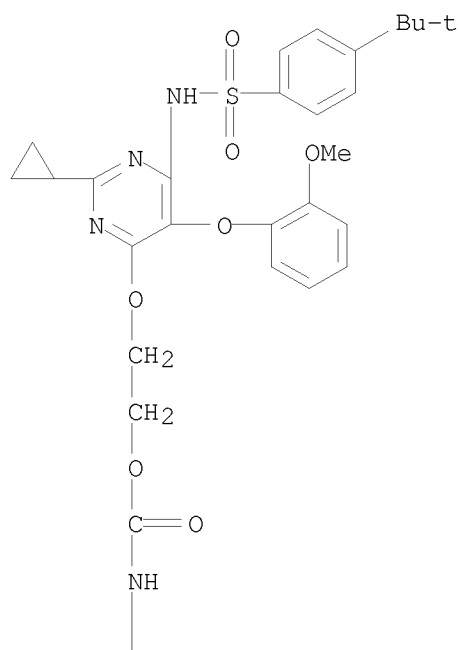
10/581,897 (amended)



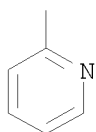
RN 167402-15-5 CAPLUS

CN Carbamic acid, 2-pyridinyl-, 2-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



10/581,897 (amended)

OSC.G	22	THERE ARE 22 CAPLUS RECORDS THAT CITE THIS RECORD (22 CITINGS)
RE.CNT	13	THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
		ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 43 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1997:502979 CAPLUS

DN 127:121748

OREF 127:23489a

TI Preparation of pyrimidine moiety-containing arylenesulfonamide derivatives as endothelin antagonists

IN Harada, Hironori; Kazami, Jun-ichi; Watanuki, Susumu; Tsuzuki, Ryuji; Sudou, Katsumi; Tanaka, Akihiro

PA Yamanouchi Pharmaceutical Co., Ltd., Japan

SO PCT Int. Appl., 71 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9722595	A1	19970626	WO 1996-JP3701	19961219
	W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2238723	A1	19970626	CA 1996-2238723	19961219
	CA 2238723	C	20060613		
	AU 9711710	A	19970714	AU 1997-11710	19961219
	AU 703386	B2	19990325		
	EP 882719	A1	19981209	EP 1996-942574	19961219
	EP 882719	B1	20010516		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	CN 1204326	A	19990106	CN 1996-199036	19961219
	CN 1102580	C	20030305		
	BR 9612061	A	19990223	BR 1996-12061	19961219
	JP 3087968	B2	20000918	JP 1997-522664	19961219
	TW 414792	B	20001211	TW 1996-85115694	19961219
	HU 2000000474	A2	20001228	HU 2000-474	19961219
	HU 2000000474	A3	20010628		
	AT 201202	T	20010615	AT 1996-942574	19961219
	ES 2156305	T3	20010616	ES 1996-942574	19961219
	RU 2172735	C2	20010827	RU 1998-114081	19961219
	US 6083955	A	20000704	US 1998-91524	19980619
PRAI	JP 1995-332111	A	19951220		
	WO 1996-JP3701	W	19961219		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 127:121748

AB The title compds. I [Ar represents optionally substituted aryl or optionally substituted five- or six-membered heteroaryl; X represents oxygen, sulfur, or the group represented by NH; Y represents oxygen or sulfur; R1 represents hydrogen, lower alkyl optionally substituted with halogeno, cycloalkyl, optionally substituted aryl, or optionally substituted five- or six-membered heteroaryl; R2 represents lower alkyl, lower alkenyl, or lower alkynyl each optionally substituted with one to three groups selected among hydroxy, lower alkoxy, cycloalkyl, halogen, carboxy, and lower alkoxycarbonyl; R3 represents Ph optionally substituted with one to four groups selected among optionally halogenated lower alkyl, lower alkoxy, halogen, lower alkylthio, lower alkylsulfinyl, lower

alkanesulfonyl, carboxy lower alkoxy carbonyl, and carbamoyl; and R4 and R5 are the same or different and each represents hydrogen or low alkyl] are prepared. In an in vitro test for affinity for the ETA receptor, the title compds. in vitro showed IC50 values of 1.5 to 9.7 nM.

IT 192645-30-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

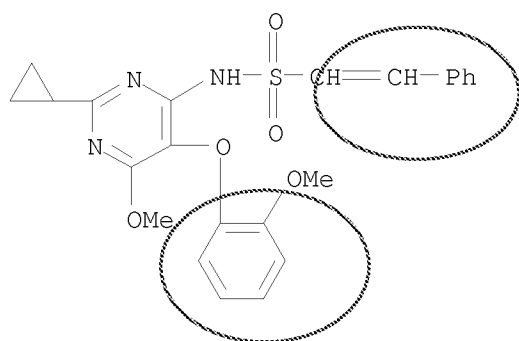
(preparation of pyrimidine moiety-containing arylenesulfonamide derivs.

as

endothelin antagonists)

RN 192645-30-0 CAPLUS

CN Ethenesulfonamide, N-[2-cyclopropyl-6-methoxy-5-(2-methoxyphenoxy)-4-pyrimidinyl]-2-phenyl-, potassium salt (1:1) (CA INDEX NAME)



● K

IT 192645-72-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

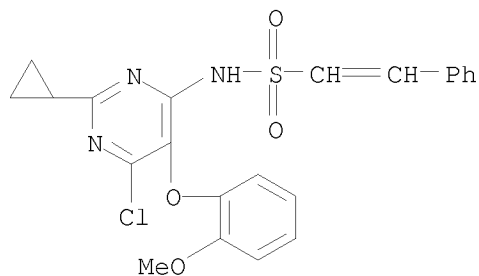
(preparation of pyrimidine moiety-containing arylenesulfonamide derivs.

as

endothelin antagonists)

RN 192645-72-0 CAPLUS

CN Ethenesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



OSC.G 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (29 CITINGS)

10/581,897 (amended)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 44 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1997:257401 CAPLUS

DN 126:277488

OREF 126:53799a,53802a

TI Preparation of pyrimidine derivatives as endothelin antagonists

IN Yamada, Koichiro; Yasuda, Kosuke; Yoshikawa, Kohei; Kono, Rikako

PA Tanabe Seiyaku Co, Japan

SO Jpn. Kokai Tokkyo Koho, 59 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09059160	A	19970304	JP 1996-151440	19960613
	JP 3067131	B2	20000717		
PRAI	JP 1995-149870	A	19950616		
OS	MARPAT 126:277488				

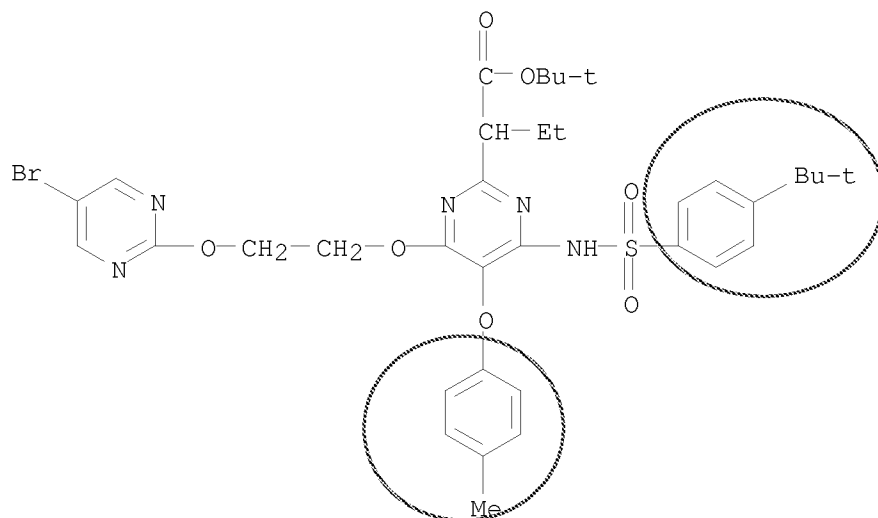
AB The title compds. I [ring A, B = (un)substituted benzene ring; Q = bond, etc.; Y = O, etc.; Alk = alkylene, etc.; Z = bond, O, etc.; R = aromatic heterocyclic ring, etc.; R1 = H, etc.] are prepared The sodium salt of the title compound II at 1 mg/kg orally gave 68.6±3.8% inhibition of endothelin-induced blood pressure increase in rats.

IT 188305-94-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyrimidine derivs. as endothelin antagonists)

RN 188305-94-4 CAPLUS

CN 2-Pyrimidineacetic acid, 4-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]- α -ethyl-5-(4-methylphenoxy)-, 1,1-dimethylethyl ester (CA INDEX NAME)



IT 169677-56-9P

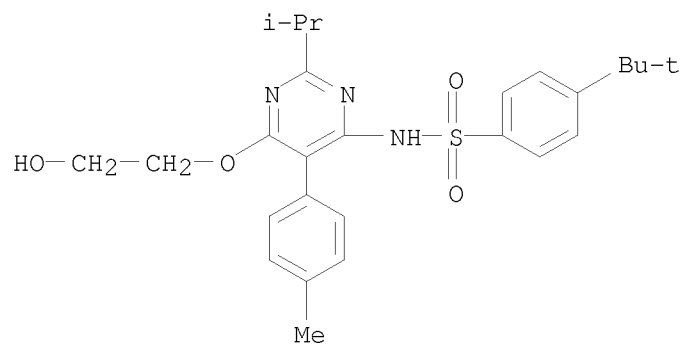
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

10/581,897 (amended)

(preparation of pyrimidine derivs. as endothelin antagonists)

RN 169677-56-9 CAPLUS

CN Benzenesulfonamide, 4-(1,1-dimethylethyl)-N-[6-(2-hydroxyethoxy)-2-(1-methylethyl)-5-(4-methylphenyl)-4-pyrimidinyl]- (CA INDEX NAME)



L10 ANSWER 45 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1995:890091 CAPLUS
 DN 123:286072
 OREF 123:51270h,51271a
 TI Preparation of (N-pyrimidinyl)benzenesulfonamide endothelin antagonists
 IN Yamada, Koichiro; Yasuda, Kosuke; Kikkawa, Kohei; Kohno, Rikako Touwacity
 Co-op
 PA Tanabe Seiyaku Co., Ltd., Japan
 SO Eur. Pat. Appl., 74 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 658548	A1	19950621	EP 1994-119833	19941215
	EP 658548	B1	19971119		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	IL 111959	A	20000716	IL 1994-111959	19941212
	CA 2137953	A1	19950618	CA 1994-2137953	19941213
	CA 2137953	C	20020326		
	AU 9480461	A	19950622	AU 1994-80461	19941214
	AU 676620	B2	19970313		
	FI 9405900	A	19950618	FI 1994-5900	19941215
	FI 115137	B1	20050315		
	AT 160341	T	19971215	AT 1994-119833	19941215
	ES 2111237	T3	19980301	ES 1994-119833	19941215
	TW 430661	B	20010421	TW 1994-83111723	19941215
	JP 08099961	A	19960416	JP 1994-312280	19941216
	JP 2790065	B2	19980827		
	US 5589478	A	19961231	US 1994-356958	19941216
	CN 1111242	A	19951108	CN 1994-119413	19941217
	CN 1051544	C	20000419		
	US 5728706	A	19980317	US 1996-636981	19960424
PRAI	JP 1993-318779	A	19931217		
	JP 1994-140628	A	19940623		
	JP 1994-183553	A	19940804		
	US 1994-356958	A1	19941216		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 123:286072; MARPAT 123:286072

AB The title compds. [I; rings A and B are (un)substituted; A1 = lower alkylene, lower alkenylene; Q = single bond, O, S, SO, SO2, CH2; R = (un)substituted aromatic heterocyclic, (un)substituted aryl; R1 = H, trifluoromethyl, (un)substituted alkyl, (un)substituted alkenyl, mono- or dialkylamino, (un)substituted alkylthio group, (un)substituted alkoxy, (un)substituted alkynyl, etc.; Y = O, S, NH; Z = single bond, O, NH] (e.g., II; m.p. 128-129.5°), having endothelin antagonist activity (no data), useful in the prophylaxis or treatment of various diseases caused by endothelin (no data), are prepared

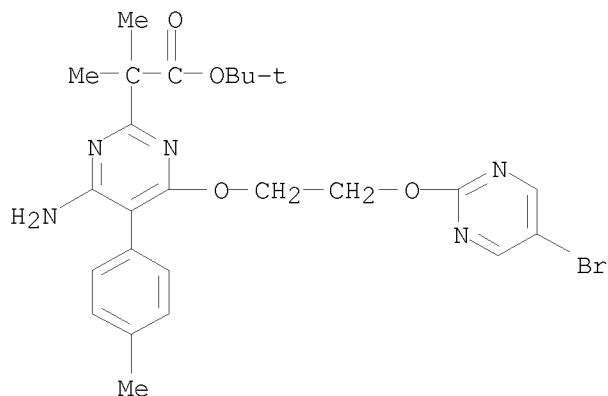
IT 848085-99-4

RL: RCT (Reactant); RACT (Reactant or reagent)

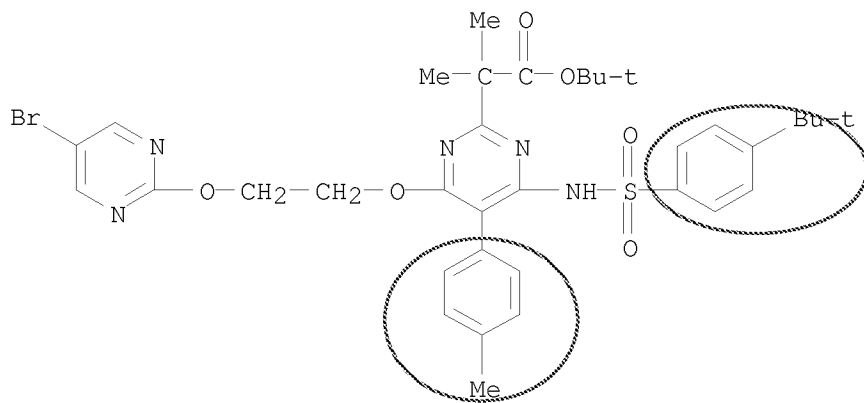
(preparation of (N-pyrimidinyl)benzenesulfonamide endothelin antagonists)

RN 848085-99-4 CAPLUS

CN 2-Pyrimidineacetic acid, 4-amino-6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]- α,α -dimethyl-5-(4-methylphenyl)-, 1,1-dimethylethyl ester (CA INDEX NAME)

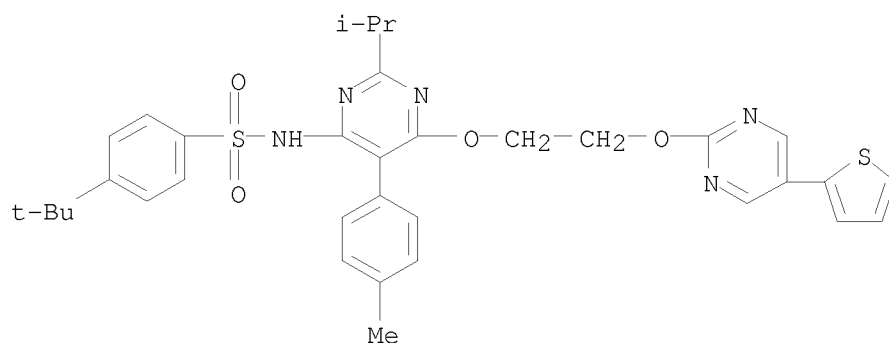


IT 169678-46-0P 169679-35-0P 169679-36-1P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of (N-pyrimidinyl)benzenesulfonamide endothelin antagonists)
 RN 169678-46-0 CAPLUS
 CN 2-Pyrimidineacetic acid, 4-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]- α,α -dimethyl-5-(4-methylphenyl)-, 1,1-dimethylethyl ester (CA INDEX NAME)



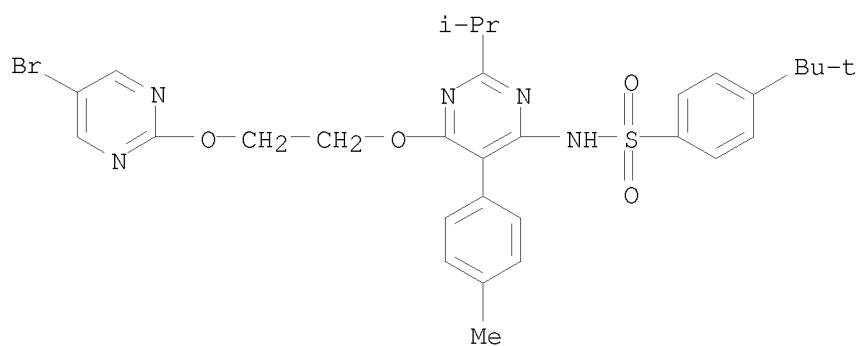
RN 169679-35-0 CAPLUS
 CN Benzenesulfonamide, 4-(1,1-dimethylethyl)-N-[2-(1-methylethyl)-5-(4-methylphenyl)-6-[2-[[5-(2-thienyl)-2-pyrimidinyl]oxy]ethoxy]-4-pyrimidinyl]- (CA INDEX NAME)

10/581,897 (amended)



RN 169679-36-1 CAPLUS

CN Benzenesulfonamide, N-[6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-2-(1-methylethyl)-5-(4-methylphenyl)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)

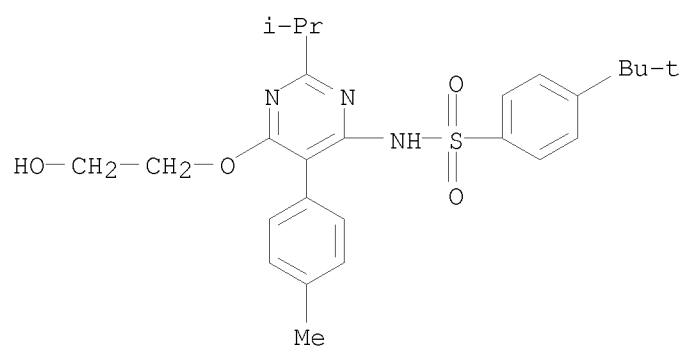


IT 169677-56-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of (N-pyrimidinyl)benzenesulfonamide endothelin antagonists from)

RN 169677-56-9 CAPLUS

CN Benzenesulfonamide, 4-(1,1-dimethylethyl)-N-[6-(2-hydroxyethoxy)-2-(1-methylethyl)-5-(4-methylphenyl)-4-pyrimidinyl]- (CA INDEX NAME)



OSC.G 23 THERE ARE 23 CAPLUS RECORDS THAT CITE THIS RECORD (25 CITINGS)

L10 ANSWER 46 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1995:780258 CAPLUS

DN 123:169647

OREF 123:30295a,30298a

TI Preparation of sulfonylaminopyrimidines as endothelin antagonists.

IN Breu, Volker; Burri, Kaspar; Cassal, Hean-Marie; Clozel, Martine; Hirth, Georges; Loeffler, Bernd-Michael; Mueller, Marcel; Neidhart, Werner; Ramuz, Henri

PA F. Hoffmann-La Roche AG, Switz.

SO Eur. Pat. Appl., 46 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	EP 633259	A1	19950111	EP 1994-109257	19940616
	EP 633259	B1	19990113		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	TW 394761	B	20000621	TW 1994-83105221	19940608
	CA 2125730	A1	19941229	CA 1994-2125730	19940613
	CA 2125730	C	20051018		
	AT 175669	T	19990115	AT 1994-109257	19940616
	ES 2127850	T3	19990501	ES 1994-109257	19940616
	ZA 9404434	A	19950103	ZA 1994-4434	19940621
	IL 110089	A	20000831	IL 1994-110089	19940622
	AU 9465948	A	19950105	AU 1994-65948	19940624
	AU 678467	B2	19970529		
	HU 67636	A2	19950428	HU 1994-1907	19940624
	FI 9403084	A	19941229	FI 1994-3084	19940627
	FI 112944	B1	20040213		
	NO 9402428	A	19941229	NO 1994-2428	19940627
	NO 306403	B1	19991101		
	BR 9402558	A	19950328	BR 1994-2558	19940627
	CN 1106007	A	19950802	CN 1994-106574	19940627
	CN 1050839	C	20000329		
	LT 3723	B	19960226	LT 1994-1979	19940627
	LV 11175	B	19960620	LV 1994-131	19940627
	US 5541186	A	19960730	US 1994-266072	19940627
	PL 175771	B1	19990226	PL 1994-304007	19940627
	PL 177031	B1	19990930	PL 1994-323036	19940627
	RU 2142457	C1	19991210	RU 1994-22258	19940627
	CZ 287184	B6	20001011	CZ 1994-1573	19940627
	JP 07017972	A	19950120	JP 1994-146003	19940628
	JP 2545200	B2	19961016		
	RO 114325	B3	19990330	RO 1994-1112	19940628
	SK 280736	B6	20000711	SK 1994-779	19940628
PRAI	CH 1993-1924	A	19930628		
	IL 1992-101650	A0	19920420		
	CH 1994-1575	A	19940520		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 123:169647

AB Title compds. (I; R1-R3 = H, alkyl, alkoxy, alkylthio, alkenyl, halo, CF₃, hydroxyalkoxy, haloalkoxy, alkanoylalkyl, hydroxyalkyl, CO₂H, amino, etc.; R₂R₃, R₅R₆, R₆R₇ = butadienyl, methylenedioxy, ethylenedioxy, isopropylidenedioxy; R₄ = H, alkyl, cycloalkyl, CF₃, alkoxy, alkynyloxy, alkylthio, alkylthioalkyl, hydroxyalkyl, dihydroxyalkoxy, alkylsulfinyl,

alkylsulfonyl, aryl, arylthio, aryloxy, heterocyclyl, heterocyclylalkyl, etc.; R5-R9 = H, halo, CF3, alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl; Ra, Rb = H, alkyl, alkoxy, alkylthio; X = O, S, NH; Y = O2CNR10R11, HNOCNR10R11, O2COR10, HNCO2R10; R10 = alkyl, cycloalkyl, hydroxyalkyl, carboxyalkyl, alkoxyalkyl, alkanoyloxyalkyl, arylcarbamoylalkyl, heterocyclyl, heterocyclylalkyl, etc.; R11 = H, R10; m = 1-3; n = 0,1), were prepared. Thus, 2-pyridinecarbonyl azide was heated in PhMe; 4-tert-butyl-N-[6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)-2,2'-bipyrimidin-4-yl]benzenesulfonamide was added to give pyridine-2-carbaminic acid, 2-[6-(4-tert-butylphenylsulfonylamino)-5-(2-methoxyphenoxy)-2,2'-bipyrimidin-4-yloxy]ethyl ester. The latter at 30 mg/kg orally in rats gave a 30% reduction in average arterial blood pressure.

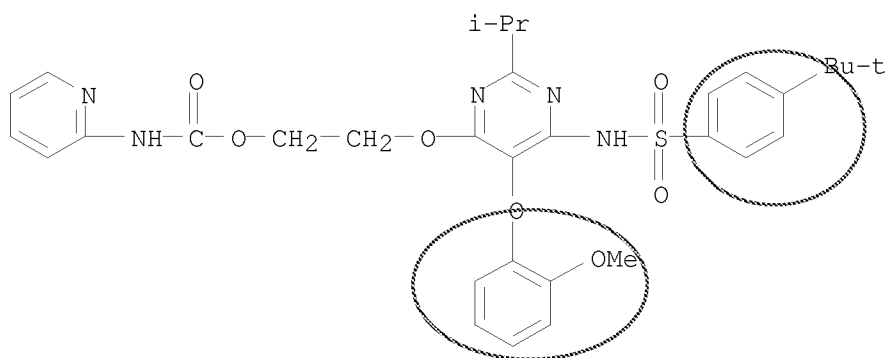
IT 167402-12-2P 167402-14-4P 167402-15-5P
167402-60-0P 167402-62-2P 167402-63-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of sulfonylaminopyrimidines as endothelin antagonists)

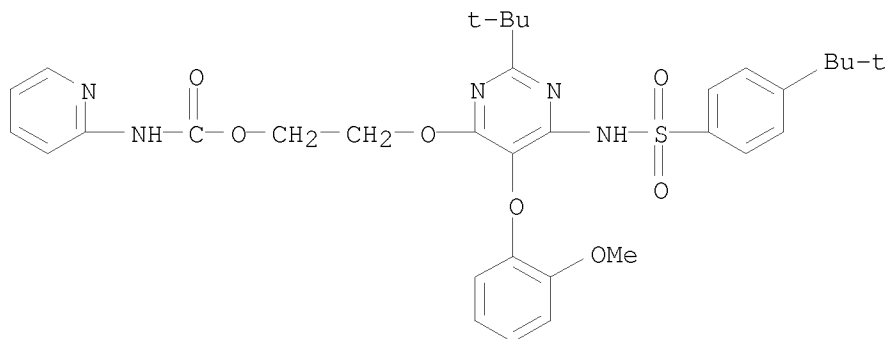
RN 167402-12-2 CAPLUS

CN Carbamic acid, 2-pyridinyl-, 2-[[[6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-2-(1-methylethyl)-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)



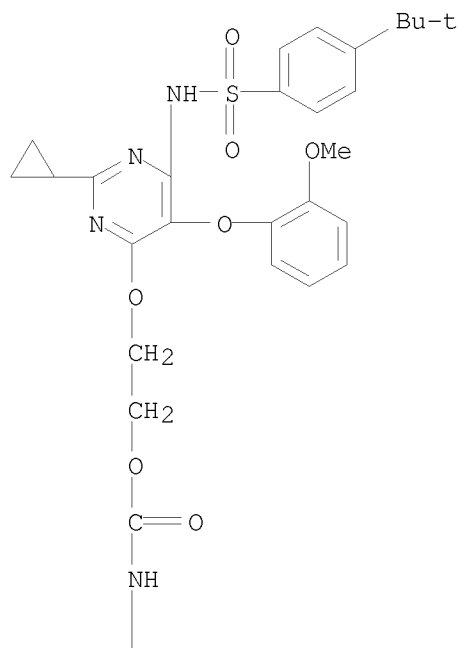
RN 167402-14-4 CAPLUS

CN Carbamic acid, 2-pyridinyl-, 2-[[[2-(1,1-dimethylethyl)-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)

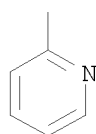


RN 167402-15-5 CAPLUS
 CN Carbamic acid, 2-pyridinyl-, 2-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)

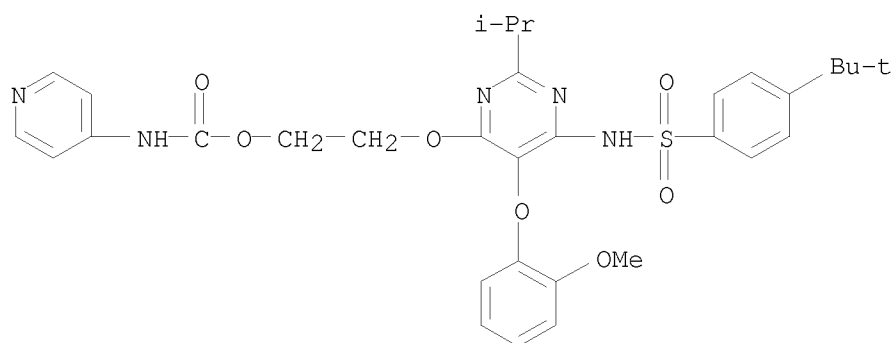
PAGE 1-A



PAGE 2-A

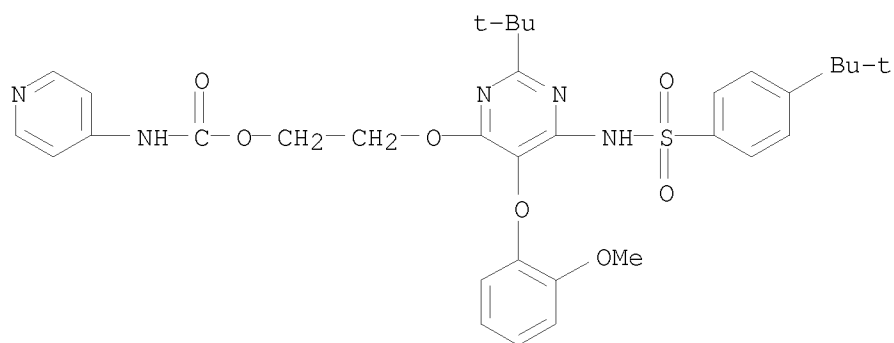


RN 167402-60-0 CAPLUS
 CN Carbamic acid, 4-pyridinyl-, 2-[[6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-2-(1-methylethyl)-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)



RN 167402-62-2 CAPLUS

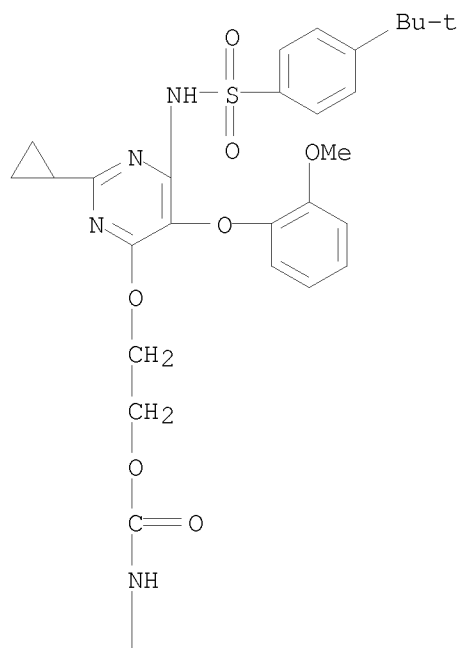
CN Carbamic acid, 4-pyridinyl-, 2-[[2-(1,1-dimethylethyl)-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)



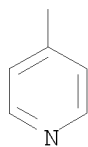
RN 167402-63-3 CAPLUS

CN Carbamic acid, 4-pyridinyl-, 2-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



OSC.G 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS RECORD (22 CITINGS)

L10 ANSWER 47 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1994:217711 CAPLUS

DN 120:217711

OREF 120:38669a,38672a

TI Preparation of pyrimidinylarylsulfonamides and analogs for treatment of circulatory disorders

IN Burri, Kaspar; Clozel, Martine; Fischli, Walter; Hirth, Georges; Loeffler, Bernd Michael; Ramuz, Henri

PA F. Hoffmann-La Roche & Co. AG, Switz.

SO Can. Pat. Appl., 73 pp.

CODEN: CPXXEB

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	CA 2071193	A1	19921214	CA 1992-2071193	19920612
	CA 2071193	C	19980825		
	RU 2086544	C1	19970810	RU 1992-5011139	19920131
	EP 526708	A1	19930210	EP 1992-109431	19920604
	EP 526708	B1	20001018		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
	AT 197044	T	20001115	AT 1992-109431	19920604
	ES 2152222	T3	20010201	ES 1992-109431	19920604
	PT 526708	E	20010430	PT 1992-109431	19920604
	ZA 9204126	A	19930224	ZA 1992-4126	19920605
	AU 9218121	A	19921217	AU 1992-18121	19920609
	AU 653604	B2	19941006		
	US 5292740	A	19940308	US 1992-896015	19920609
	IL 102138	A	19960912	IL 1992-102138	19920609
	HU 63152	A2	19930728	HU 1992-1930	19920610
	HU 221203	B1	20020828		
	JP 05222003	A	19930831	JP 1992-174993	19920610
	JP 07030042	B	19950405		
	RO 111268	B3	19960830	RO 1992-780	19920611
	NO 9202323	A	19921214	NO 1992-2323	19920612
	NO 303826	B1	19980907		
	CZ 281434	B6	19960911	CZ 1992-1804	19920612
	SK 279006	B6	19980506	SK 1992-1804	19920612
	KR 235507	B1	19991215	KR 1992-10205	19920612
	FI 112216	B1	20031114	FI 1992-2746	19920612
	BR 9202219	A	19930202	BR 1992-2219	19920615
	GR 3035162	T3	20010430	GR 2000-402849	20001228
PRAI	CH 1991-1760	A	19910613		
	CH 1992-1516	A	19920512		

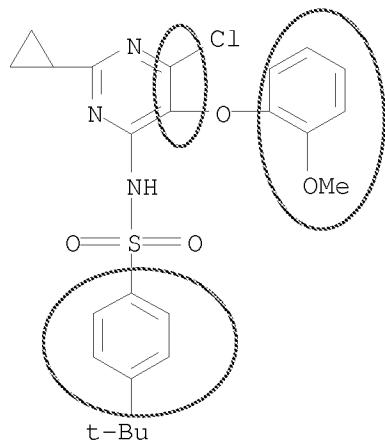
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 120:217711

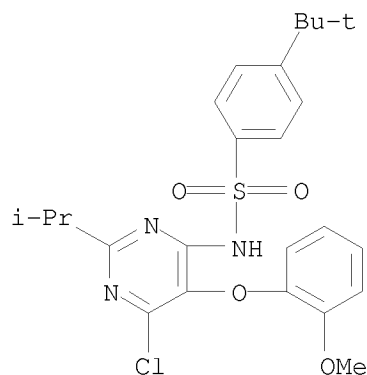
AB Title compds. I (R1 = H, alkyl, alkoxy, alkylthio, halo, F3C; R2 = H, halo, alkoxy, F3C, RaO2CCH2O wherein Ra = H, alkyl; R3 = H, halo, alkyl, alkylthio, F3C, cycloalkyl, alkoxy, F3CO; R2R3 = butadienyl, OCH2O, O(CH2)2O, OCMe2O; R4 = H, alkyl, cycloalkyl, F3C, alkoxy, alkyl, H2N, HOCH2CH(OMe)CH2O, etc.; R5 = H, alkyl, alkanoyl, Bz, heterocyclylcarbonyl, Me, tetrahydropyran-2-yl; R6-R9 = H, halo, F3C, alkyl, alkoxy, alkylthio, HO, HOCH2, NC, HO2C, HCO, MeOS, MeSO2, etc.; R7R6, R7R8 = butadienyl, OCH2O, etc.; Z = O, S, CH2CH2, CH:CH2, CO, R10CHO, R10CHR wherein R10 = H, alkyl; X, Y = O, S, NH; Rb = Ra; n = 1-3) and salts thereof, active in treatment of circulatory disorders such as hypertension, ischemia,

vasospasms and angina pectoris, are prepared
 P-tert-butyl-N-[6-chloro-5-(o-methoxyphenoxy)-4-pyrimidinyl]benzenesulfonamide (preparation starting from guaiacol and dimethyl chloromalonate given) were added to HOCH₂CO₂Na to give the 6-(2-hydroxyethoxy) derivative which in EtOH was treated with EtONa to give title compound II as the Na salt. II at 10 mg/kg i.v. showed 13.4% reduction in renal perfusion in rats vs. 43% for controls, and effectively inhibited endothelin-induced contractions in rat aortal rings. Pharmaceutical formulations comprising I are given.

- IT 150727-73-4P 150727-75-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, in preparation of circulatory agents)
 RN 150727-73-4 CAPLUS
 CN Benzenesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



- RN 150727-75-6 CAPLUS
 CN Benzenesulfonamide, N-[6-chloro-5-(2-methoxyphenoxy)-2-(1-methylethyl)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)

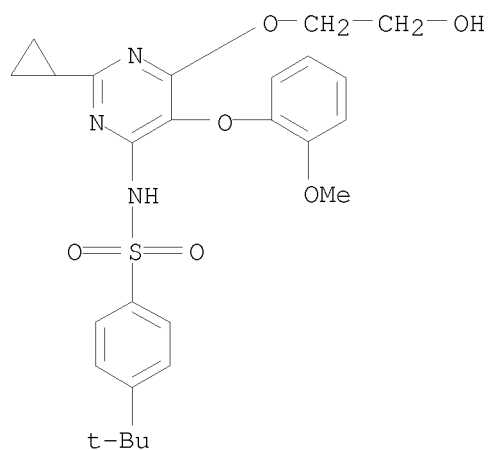


- IT 150726-47-9P 150726-49-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as circulatory agent)

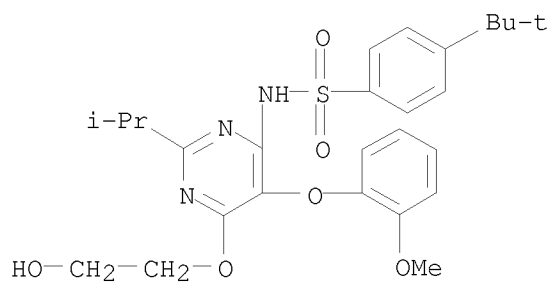
RN 150726-47-9 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



RN 150726-49-1 CAPLUS

CN Benzenesulfonamide, 4-(1,1-dimethylethyl)-N-[6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)-2-(1-methylethyl)-4-pyrimidinyl]- (CA INDEX NAME)



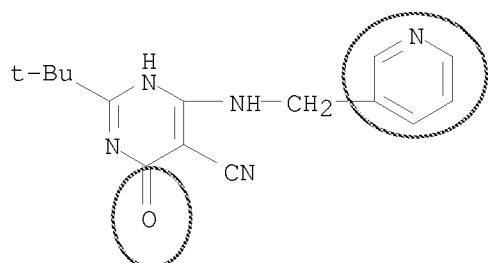
OSC.G 53 THERE ARE 53 CAPLUS RECORDS THAT CITE THIS RECORD (66 CITINGS)

L10 ANSWER 48 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1994:566 CAPLUS
 DN 120:566
 OREF 120:135a,138a
 TI Aminopyrimidine derivatives as antiviral agents for respiratory syncytial virus
 IN Hsu, Kuo Hom L.; Teller, Daniel M.; Davis, Alan R.; Lubeck, Michael D.; Bagli, Jehan F.
 PA American Home Products Corp., USA
 SO U.S., 5 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5256668	A	19931026	US 1993-32065	19930317
PRAI	US 1993-32065		19930317		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

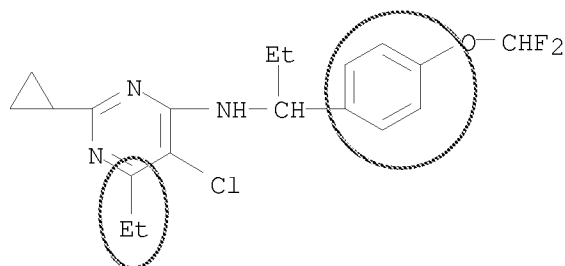
OS MARPAT 120:566
 AB Aminopyrimidine derivs. (Markush structure given) are used as antiviral agents for treatment of infection with respiratory syncytial virus (RSV). The ED50 and TD50 of 5-fluoro-2-methyl-6-[(3-pyridinylmethyl)amino]-4-(1H)pyrimidone against RSV was 0.05 and >16, resp. as compared with 50, and 100 µg/mL, for amantadine as control.
 IT 151751-97-2
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (virucide, for treatment of respiratory syncytial virus infection)
 RN 151751-97-2 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 2-(1,1-dimethylethyl)-1,6-dihydro-6-oxo-4-[(3-pyridinylmethyl)amino]- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 49 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1993:38944 CAPLUS
 DN 118:38944
 OREF 118:7103a,7106a
 TI Preparation of aralkylaminopyrimidines as bactericides
 IN Fujii, Katsutoshi; Fukuda, Yasuhisa; Yamanaka, Yoshinori
 PA Ube Industries, Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04235976	A	19920825	JP 1991-73547	19910118
	JP 2762430	B2	19980604		
PRAI	JP 1991-73547		19910118		
OS	CASREACT 118:38944; MARPAT 118:38944				
AB	The title compds. I (R1 = H, halo, alkyl; R2 = halo, alkyl; R1R2 = (S-containing) (un)saturated 5- or 6-membered ring; R3 = H, (cyclo)alkyl, alkylthio, (alkyl-substituted) amino; R4 = (halo)alkyl, cycloalkyl; R5 = H, halo; R6 = H, halo, alkyl, (halo)alkoxy; n = 1, 2), useful as bactericides (no data), are prepared by treating pyrimidines II (X = eliminating group) with aralkylamines III in alc. solvents. Refluxing a mixture of II (R1 = X = Cl, R2 = Me, R3 = H), dl- α -ethyl-4-difluoromethoxybenzylamine, and Et3N in EtOH for 7 h gave 90% 5-chloro-6-methyl-4-(α -ethyl-4-difluoromethoxybenzylamino)pyrimidine.				
IT	144991-98-0P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as bactericide)				
RN	144991-98-0 CAPLUS				
CN	4-Pyrimidinamine, 5-chloro-2-cyclopropyl-N-[1-[4-(difluoromethoxy)phenyl]propyl]-6-ethyl- (CA INDEX NAME)				



OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

L10 ANSWER 50 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1992:407945 CAPLUS
 DN 117:7945
 OREF 117:1607a,1610a
 TI (Naphthylalkylamino)pyrimidine derivatives, process for their preparation
 and pesticides containing them
 IN Kristiansen, Odd; Zondler, Helmut; Mueller, Urs
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 66 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 470600	A1	19920212	EP 1991-113282	19910807
	EP 470600	B1	19970507		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	CA 2048713	A1	19920211	CA 1991-2048713	19910808
	IL 99122	A	19970218	IL 1991-99122	19910808
	AU 9181762	A	19920213	AU 1991-81762	19910809
	AU 647163	B2	19940317		
	HU 58300	A2	19920228	HU 1991-2666	19910809
	ZA 9106297	A	19920429	ZA 1991-6297	19910809
	BR 9103426	A	19920519	BR 1991-3426	19910809
	JP 04230670	A	19920819	JP 1991-225025	19910809
	CZ 279334	B6	19950412	CZ 1991-2470	19910809
	PL 169439	B1	19960731	PL 1991-291383	19910809
	CN 1058776	A	19920219	CN 1991-105501	19910810
	US 5468751	A	19951121	US 1993-126154	19930923
PRAI	CH 1990-2603	A	19900810		
	CH 1991-390	A	19910208		
	US 1991-741716	B3	19910807		
	US 1992-910939	B1	19920719		
	US 1993-15079	B1	19930208		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

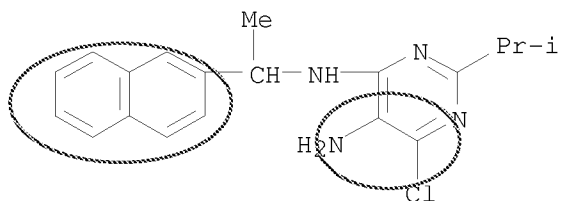
OS MARPAT 117:7945

AB Title compds. I [R1 = H, (substituted) C1-5 alkyl, (halo)-C2-7 alkenyl, C3-7 cycloalkyl, halo, C2-6 alkynyl; R2 = H, HO, (substituted) C1-5 alkyl, C1-4 alkoxy, halo, O2N, NC, H2N, C1-4 alkyl-S(O)p wherein p = 0-2, R3NH, R3R9N, R10R9C:N wherein R3 = H, C1-5 alkyl, PhCH2, R6CO, R7S, wherein R9 = C1-5 alkyl, R10 = H, C1-5 alkyl, R6 = C1-5 alkyl, (substituted) Ph, R7 = (substituted) Ph, (substituted) PhCH2, (substituted) C1-5 alkyl; R4, R8 = H, (substituted) C1-3 alkyl, C3-7 cycloalkyl; R5 = halo, C1-3 alkyl, C1-3 alkoxy, C1-3 alkylthio, etc.; R13 = H, (substituted) C1-4 alkyl, (C1-3 alkyl)N, etc.; m, n = 0-3]. To a solution of 4,5-dichloro-6-ethylpyrimidine in BuOH were added 1- β -naphthylethanamine and Et3N to give after workup 4-(1- β -naphthylethylamino)-5-chloro-6-ethylpyrimidine (II). II was effective in controlling Pythium ultimum on sugar beet and corn.

IT 141602-00-8P 141602-04-2P 141602-16-6P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as pesticide)

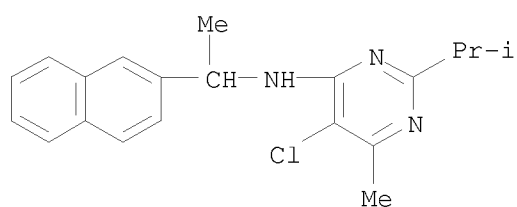
RN 141602-00-8 CAPLUS

CN 4,5-Pyrimidinediamine, 6-chloro-2-(1-methylethyl)-N4-[1-(2-naphthalenyl)ethyl]- (CA INDEX NAME)



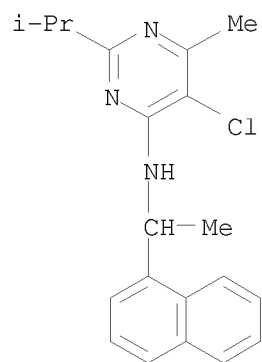
RN 141602-04-2 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-6-methyl-2-(1-methylethyl)-N-[1-(2-naphthalenyl)ethyl]- (CA INDEX NAME)



RN 141602-16-6 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-6-methyl-2-(1-methylethyl)-N-[1-(1-naphthalenyl)ethyl]- (CA INDEX NAME)



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L10 ANSWER 51 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1992:6576 CAPLUS

DN 116:6576

OREF 116:1307a,1310a

TI Preparation of N-(2,6-dinitro-3-chloro-4-trifluoromethylphenyl)-4-amino-6-fluoropyrimidines as agrochemical fungicides

IN Zondler, Helmut; Meyer, Alfred; Riebli, Peter; Hubele, Adolf

PA Ciba-Geigy A.-G., Switz.

SO Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 445074	A1	19910904	EP 1991-810111	19910220
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	CA 2036976	A1	19910828	CA 1991-2036976	19910225
	JP 04211668	A	19920803	JP 1991-53294	19910225
	BR 9100774	A	19911029	BR 1991-774	19910226
PRAI	CH 1990-628	A	19900227		

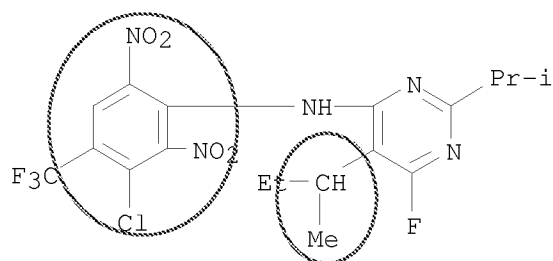
OS MARPAT 116:6576

AB The title compds. (I; R = substituted Ph group Q; R1, R2 = H, alkyl, cyclopropyl) (II) were prepared Thus, I (R = H, R1 = R2 = Et) was condensed with QCl to give II (R1 = R2 = Et) which gave 90-100% control of *Cercospora arachidicola* on peanut plants when sprayed at 0.006% 48 h prior to inoculation.

IT 137783-39-2P 137783-48-3P 137783-52-9P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as agrochem. fungicide)

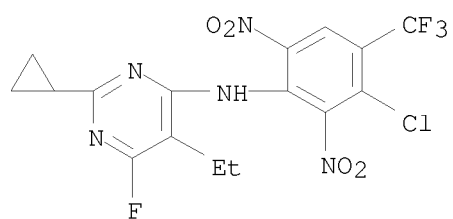
RN 137783-39-2 CAPLUS

CN 4-Pyrimidinamine, N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-6-fluoro-2-(1-methylethyl)-5-(1-methylpropyl)- (CA INDEX NAME)



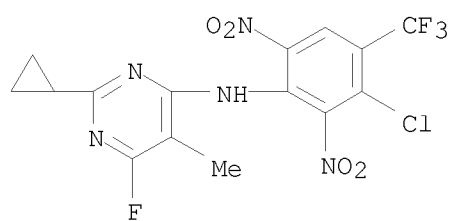
RN 137783-48-3 CAPLUS

CN 4-Pyrimidinamine, N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-2-cyclopropyl-5-ethyl-6-fluoro- (CA INDEX NAME)



RN 137783-52-9 CAPLUS

CN 4-Pyrimidinamine, N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-2-cyclopropyl-6-fluoro-5-methyl- (CA INDEX NAME)



L10 ANSWER 52 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1991:247303 CAPLUS
 DN 114:247303
 OREF 114:41761a,41764a
 TI Preparation of aminopyrimidine derivatives as pesticides and fungicides
 IN Obata, Tokio; Fujii, Katsutoshi; Narita, Isamu; Shikita, Shoji
 PA Ube Industries, Ltd., Japan
 SO Eur. Pat. Appl., 41 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 411634	A2	19910206	EP 1990-114864	19900802
	EP 411634	A3	19910731		
	R: DE, FR, GB, IT				
	JP 03063265	A	19910319	JP 1989-199210	19890802
	JP 03127789	A	19910530	JP 1989-262913	19891011
	JP 04026681	A	19920129	JP 1990-126956	19900518
	US 5124333	A	19920623	US 1990-558798	19900726
PRAI	JP 1989-199210	A	19890802		
	JP 1989-262913	A	19891011		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 114:247303

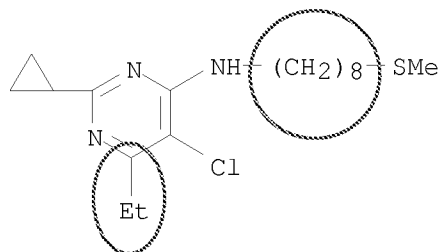
AB Aminopyrimidine derivs. I [R1 = H, C1-4 alkyl, halo, C3-6 cycloalkyl; R2, R3 = halo, C1-4 alkyl, R2R3 = (substituted) 5- or 6-membered ring residue containing optional O or S atom; R4 = H, CONR6R7 wherein R6R7 = heterocyclyl residue containing addnl. N atom; R5 = R9S(O)n(CH2)mCHR8 or R9S(O)n(CH2)p wherein R8 = H, C1-4 alkyl, C3-6 cycloalkyl; R9 = C3-5 alkenyl, alkynyl, (substituted) Ph, etc.; m = 1-10, n = 0, 1, 2; p = 4-15], useful as insecticides, acaricides, nematocides, and fungicides, are prepared A mixture of mercapto compound II (R = H) 0.80, PhCHMeBr 0.58, and K2CO3 0.55 g in DMF was heated at 100° to give 0.85 g thioether II (R = PhCHMe), which showed 100% control of brown rice planthoppers and two-spotted spider mites at 300 ppm. Also prepared were 97 addnl. I. Fungicidal activity against barley powdery mildew, wheat rust, and rice blast were also given.

IT 134102-74-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as pesticide and fungicide)

RN 134102-74-2 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-ethyl-N-[8-(methylthio)octyl]-
 (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L10 ANSWER 53 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1990:612005 CAPLUS
 DN 113:212005
 OREF 113:35831a,35834a
 TI Preparation of 4-(benzylamino)pyrimidines as pesticides
 IN Fujii, Katsutoshi; Tanaka, Toshinobu; Fukuda, Yasuhisa
 PA Ube Industries, Ltd., Japan
 SO Eur. Pat. Appl., 35 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	EP 370704	A2	19900530	EP 1989-311917	19891116
	EP 370704	A3	19901227		
	EP 370704	B1	19950201		
	R: DE, ES, FR, GB, IT, NL				
	JP 03007267	A	19910114	JP 1989-199207	19890802
	JP 07051565	B	19950605		
	JP 03163066	A	19910715	JP 1989-292381	19891113
	JP 07091277	B	19951004		
	US 5141941	A	19920825	US 1989-437341	19891115
	ES 2066864	T3	19950316	ES 1989-311917	19891116
PRAI	JP 1988-292444	A	19881121		
	JP 1989-62069	A	19890316		
	JP 1989-199207	A	19890802		
	JP 1989-201245	A	19890804		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 113:212005

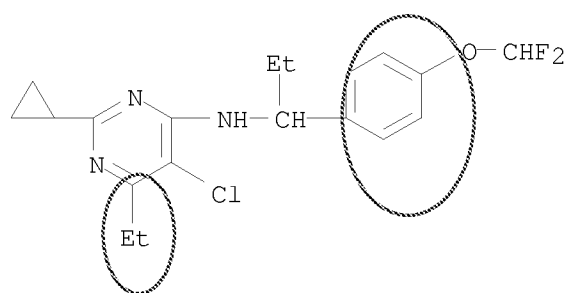
AB The title compds. [I; R1 = H, halo(alkyl), alkanoyl, NO2, cyano, 1,3-dioxolan-2-yl; R2, R3 = halo, alkyl; R2R3 = atoms to complete an unsatd. 5- or 6-membered (S-containing) ring; R4 = H, halo, (cyclo)alkyl, alkoxy, alkylthio, amino; R5 = H, (cyclo)alkyl, (halo)alkoxy; n = 1, 2; Q = CF2, Q1; Z = C, N], were prepared Thus, KOH and Me2SO were stirred 30 min at 100°, the mixture was cooled to 50° and 5-chloro-6-ethyl-4-(2-ethyl-4-hydroxybenzylamino)pyrimidine was added. After stirring for 30 min, C6F6 was added and the mixture was stirred 8 h at 70° to give II. Several I as 0.01% sprays gave complete control of wheat brown rust on young wheat plants.

IT 144991-98-0P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as pesticide)

RN 144991-98-0 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-N-[1-[4-(difluoromethoxy)phenyl]propyl]-6-ethyl- (CA INDEX NAME)



OSC.G 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

L10 ANSWER 54 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1990:459080 CAPLUS

DN 113:59080

OREF 113:9995a,9998a

TI Condensed heteroaromatic ring systems. XVI. Synthesis of pyrrolo[2,3-d]pyrimidine derivatives

AU Kondo, Yoshinori; Watanabe, Ryo; Sakamoto, Takao; Yamanaka, Hiroshi

CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan

SO Chemical & Pharmaceutical Bulletin (1989), 37(11), 2933-6
CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

OS CASREACT 113:59080

AB The synthesis of pyrrolo[2,3-d]pyrimidine derivs. was accomplished by either the Pd-catalyzed reaction of terminal alkynes with N-(5-halo-4-pyrimidinyl)methanesulfonamides [prepared by the nucleophilic substitution of 4-chloro-5-halopyrimidines with MeSO₂NH₂] or by the photocyclization of 4-azidopyrimidines containing an olefinic function at the 5-position. The synthesis of 4-azidopyrimidine derivs. is also described.

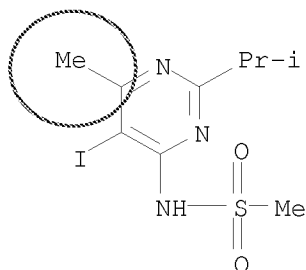
IT 128266-69-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and addition-cyclization reaction of, with (trimethylsilyl)acetylene or hexyne)

RN 128266-69-3 CAPLUS

CN Methanesulfonamide, N-[5-iodo-6-methyl-2-(1-methylethyl)-4-pyrimidinyl]-
(CA INDEX NAME)



OSC.G 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)

L10 ANSWER 55 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1990:118842 CAPLUS

DN 112:118842

OREF 112:20139a,20142a

TI Preparation of N-heterocyclylisonicotinamides as plant protective agents

IN Zondler, Helmut; Meyer, Alfred; Eckhardt, Wolfgang; Kunz, Walter

PA Ciba-Geigy A.-G., Switz.

SO Eur. Pat. Appl., 43 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 332579	A2	19890913	EP 1989-810160	19890301
	EP 332579	A3	19901017		
	EP 332579	B1	19940810		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	ES 2057172	T3	19941016	ES 1989-810160	19890301
	US 4980355	A	19901225	US 1989-319017	19890303
	DK 8901126	A	19890910	DK 1989-1126	19890308
	AU 8931149	A	19890914	AU 1989-31149	19890308
	AU 622640	B2	19920416		
	BR 8901086	A	19891031	BR 1989-1086	19890308
	ZA 8901767	A	19891129	ZA 1989-1767	19890308
	JP 01272569	A	19891031	JP 1989-57652	19890309
	US 5112840	A	19920512	US 1990-594889	19901009
PRAI	CH 1988-887	A	19880309		
	US 1989-319017	A3	19890303		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

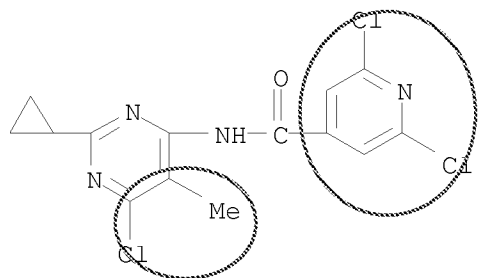
OS MARPAT 112:118842

AB The title compds. [I; R = (un)substituted pyridyl, pyrimidinyl, pyridazinyl, pyrazinyl; X = F, Cl, Br, iodo] were prepared Thus, 2,6-dichloroisonicotinoyl chloride was stirred with imidazole in THF containing Et₃N to give 83% N-(2,6-dichloroisonicotinoyl)imidazole which was refluxed 1 h with 2-isopropoxy-4-amino-5-chloropyrimidine in PhMe to give 30.8% title compound II which gave 80-100% protection of cucumber plants against Colletotrichum lagenarium when sprayed at 200 ppm.

IT 125646-72-2P 125646-73-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as plant protective agent)

RN 125646-72-2 CAPLUS

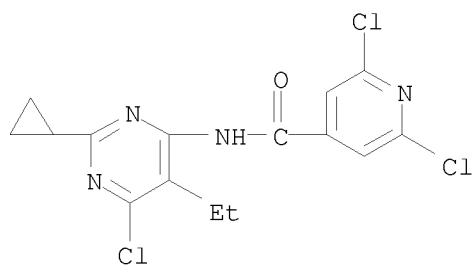
CN 4-Pyridinecarboxamide, 2,6-dichloro-N-(6-chloro-2-cyclopropyl-5-methyl-4-pyrimidinyl)- (CA INDEX NAME)



10/581,897 (amended)

RN 125646-73-3 CAPLUS

CN 4-Pyridinecarboxamide, 2,6-dichloro-N-(6-chloro-2-cyclopropyl-5-ethyl-4-pyrimidinyl)- (CA INDEX NAME)



OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L10 ANSWER 56 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1990:21012 CAPLUS

DN 112:21012

OREF 112:3691a,3694a

TI Preparation of 6-ethyl-4-(alkylamino)pyrimidines as insecticides, acaricides, and fungicides

IN Yoshioka, Hirosuke; Obata, Tokio; Fujii, Katsutoshi; Yoshiya, Haruo; Tsutsumiuchi, Kiyoshi; Shikata, Shoji

PA Ube Industries, Ltd., Japan; Kenkyusho, Rikagaku

SO Eur. Pat. Appl., 36 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	EP 323757	A2	19890712	EP 1988-312414	19881229
	EP 323757	A3	19910306		
	EP 323757	B1	19950510		
	R: DE, FR, GB, IT				
	JP 02085263	A	19900326	JP 1988-249816	19881005
	JP 07045481	B	19950517		
	US 4931455	A	19900605	US 1988-289626	19881222
	CA 1337525	C	19951107	CA 1989-587438	19890103
PRAI	JP 1988-662	A	19880107		
	JP 1988-156684	A	19880627		
	JP 1988-249816	A	19881005		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 112:21012; MARPAT 112:21012

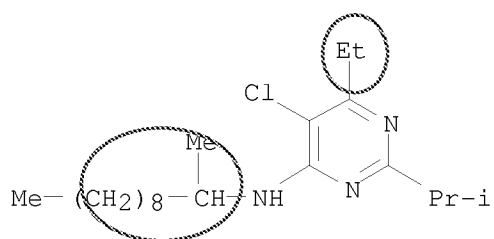
AB The title compds. [I; X = NHCHR3R4; R1 = H, halo, lower (halo)alkyl, C3-6 cycloalkyl, (un)substituted Ph; R2 = halo; R3 = H, lower alkyl, C3-6 cycloalkyl; R4 = (un)substituted straight or branched C1-20 alkyl] or their acid addition salts and insecticides, acaricides and fungicides containing

I as active ingredients are prepared by reaction of I (X = eliminatable group) with H2NCHR3R4. Thus, 1-methyloctylamine was added to a solution of 4,5-dichloro-6-ethylpyrimidine and Et3N in PhMe and the mixture was then refluxed 10 h to give I [R1 = H, R2 = Cl, X = NHCHR3R4, R3 = Me, R4 = (CH2)6Me]. One hundred and eight I were prepared Approx. 70 I tested controlled 80-99 or 40-59% common cutworm, diamondback moth, rice planthopper, green rice, rice blast disease, or organic phosphorus agent-resistant green rice leafhopper, two-spotted spider mite, adult female citrus red mite, or citrus red mite egg and were equally or more effective than 4-(n-nonylamino)quinazoline.

IT 124310-21-0P 124310-22-1P 124310-28-7P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as insecticide, acaricide, and fungicide)

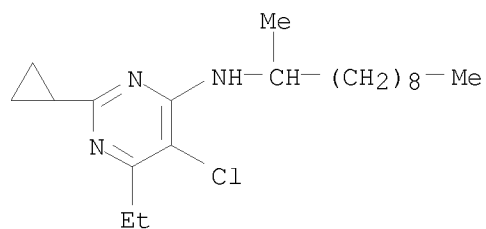
RN 124310-21-0 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-6-ethyl-N-(1-methyldecyl)-2-(1-methylethyl)- (CA INDEX NAME)



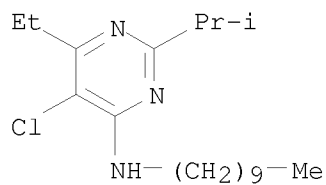
RN 124310-22-1 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-ethyl-N-(1-methyldecyl)- (CA INDEX NAME)



RN 124310-28-7 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-N-decyl-6-ethyl-2-(1-methylethyl)- (CA INDEX NAME)



OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L10 ANSWER 57 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1988:150414 CAPLUS

DN 108:150414

OREF 108:24701a,24704a

TI Chemistry and positive inotropic effect of pelrinone and related derivatives. A novel class of 2-methylpyrimidones as inotropic agents

AU Bagli, Jehan; Bogri, T.; Palameta, B.; Rakhit, S.; Peseckis, S.; McQuillan, J.; Lee, D. K. H.

CS Ayerst Lab. Res., Inc., Princeton, NJ, 08543-9990, USA

SO Journal of Medicinal Chemistry (1988), 31(4), 814-23

CODEN: JMCMAR; ISSN: 0022-2623

DT Journal

LA English

OS CASREACT 108:150414

AB Novel pyrimidine derivs. (e.g., I; R = cyano, R1 = 3-pyridylmethyl) were synthesized and evaluated for pos. inotropic activity. Thus, (MeS)2C:C(CN)CO2Me cyclocondensed with MeC(:NH)NH2·HCl to give cyano methyl(methylthio)dihydropyrimidinone II, which was treated with 3-(aminomethyl)pyridine to give 48% I (R = cyano, R1 = 3-pyridylmethyl). Inotropic and chronotropic effects were determined in vitro in cat papillary muscle and right atrium, resp. Selected compds. were then evaluated in vivo in a dog heart failure model. Changes in ventricular dP/dt, heart rate, and blood pressure were monitored. Several of these agents produced relatively minor changes in heart rate. This class of agents demonstrated a varying degree of vasodilator effects concomitant with increases in ventricular contractility. The most potent analogs, I (R = cyano, R1 = 3-pyridylmethyl; R = Br, R1 = Et, 3-pyridylmethyl), were evaluated orally in conscious dogs with implanted Konisberg pressure transducers, and their effect on left ventricular dP/dt was compared with that of milrinone. Mechanistically, the agents of this novel class appear not to mediate their effect either via β -receptors or inhibition of Na⁺/K⁺-ATPase. A major component of their inotropic effect is mediated by the inhibition of cardiac phosphodiesterase (PDE)-Fr. III. This was clearly demonstrated by I. Compound I (R = Br, R1 = 3-pyridylmethyl) was found to be the most potent inhibitor of PDE-Fr. III from among the compds. tested in this assay. The crystal structure of I (R = cyano, 3-pyridylmethyl)·HBF₄ is also reported.

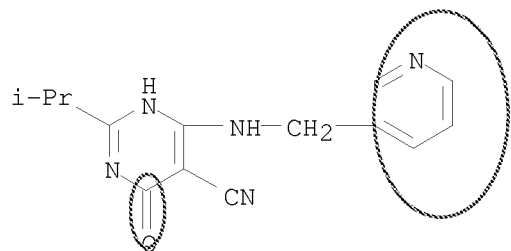
IT 96823-97-1P 112969-38-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and cardiotonic activity of)

RN 96823-97-1 CAPLUS

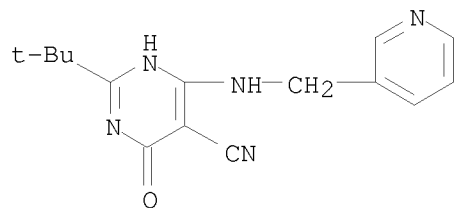
CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-(1-methylethyl)-6-oxo-4-[(3-pyridinylmethyl)amino]- (CA INDEX NAME)



RN 112969-38-7 CAPLUS

10/581,897 (amended)

CN 5-Pyrimidinecarbonitrile, 2-(1,1-dimethylethyl)-1,6-dihydro-6-oxo-4-[(3-pyridinylmethyl)amino]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L10 ANSWER 58 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1987:196130 CAPLUS

DN 106:196130

OREF 106:31785a,31788a

TI (Trifluoromethyl)purine derivatives as antitumor agents

IN Obe, Takanori; Sueoka, Hiroyuki; Terasawa, Michio

PA Yoshitomi Pharmaceutical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI JP 62010085 A 19870119 JP 1985-148838 19850705

AB The title compds. I (R = H, CF₃, alkyl, etc.; R₁ = H, alkyl; R₂ = alkyl; R₁R₂N = heterocyclyl; R₃ = H, alkyl; R₄ = CF₃, pyridyl, Ph), effective antitumor agents at 0.1-10 mg/kg in adults, are prepared Thus, stirring 4 g pyrimidine derivative II and 1.9 g PhCO₂H in 50 g polyphosphoric acid at 150° gave 2.9 g I (R = CF₃, R₁R₂N = piperidino, R₃ = H, R₄ = Ph).

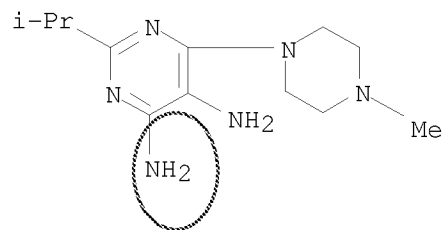
IT 108087-68-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(cyclocondensation of, with trifluoroacetic acid)

RN 108087-68-9 CAPLUS

CN 4,5-Pyrimidinediamine, 2-(1-methylethyl)-6-(4-methyl-1-piperazinyl)- (CA INDEX NAME)



L10 ANSWER 59 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1985:406358 CAPLUS
 DN 103:6358
 OREF 103:1147a,1150a
 TI Amino-pyrimidine derivatives
 IN Bagli, Jehan Framoz
 PA American Home Products Corp., USA
 SO Eur. Pat. Appl., 50 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	EP 130735	A1	19850109	EP 1984-304158	19840620
	EP 130735	B1	19881102		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	US 4505910	A	19850319	US 1983-509886	19830630
	US 4507304	A	19850326	US 1983-509887	19830630
	ZA 8404476	A	19860226	ZA 1984-4476	19840613
	AT 38328	T	19881115	AT 1984-304158	19840620
	AU 8429710	A	19850103	AU 1984-29710	19840621
	AU 572856	B2	19880519		
	HU 34465	A2	19850328	HU 1984-2441	19840622
	HU 193581	B	19871028		
	DK 8403090	A	19841231	DK 1984-3090	19840625
	JP 60025974	A	19850208	JP 1984-131827	19840625
	CA 1232905	A1	19880216	CA 1984-457551	19840627
	CA 1248104	A2	19890103	CA 1986-505828	19860403
PRAI	US 1983-509886	A	19830630		
	US 1983-509887	A	19830630		
	EP 1984-304158	A	19840620		
	CA 1984-457551	A3	19840627		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 103:6358

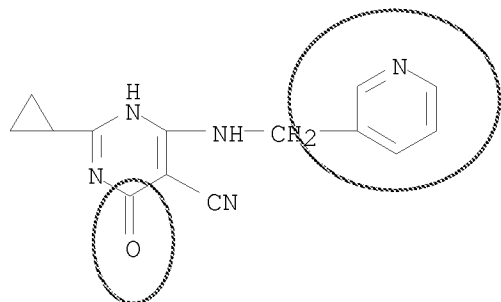
AB Title derivs. I [X = O, S, NH; R = alkyl, cycloalkyl, phenylalkyl, CF₃; R₁ = CN, CONH₂, NO₂, SO₂Me, SO₂NH₂; R₂, R₃, R₄, R₅, R₆ = H, alkyl; R₇ = H, alkenyl, piperidino, 1-pyrrolidinyl, 1-piperazinyl, furyl, indolyl, thienyl, etc.; m, n = 0, 1, 2] were prepared as cardiotonic agents. Thus, the cyclocondensation of MeC(:NH)NH₂.HCl with (MeS)₂C:C(CN)CO₂Me in DMF containing NaH gave pyrimidine II, which was treated with 3-(aminomethyl)pyridine to give aminopyrimidine III. III at 10⁻⁴ M increased contractility by 98% in isolated cat papillary muscle.

IT 96824-00-9P

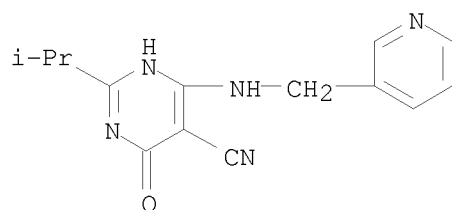
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and cardiotonic activity of)

RN 96824-00-9 CAPLUS

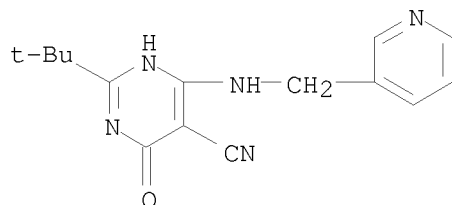
CN 5-Pyrimidinecarbonitrile, 2-cyclopropyl-1,6-dihydro-6-oxo-4-[(3-pyridinylmethyl)amino]- (CA INDEX NAME)



IT 96823-97-1P 96823-99-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 96823-97-1 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-(1-methylethyl)-6-oxo-4-[(3-pyridinylmethyl)amino]- (CA INDEX NAME)



RN 96823-99-3 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 2-(1,1-dimethylethyl)-1,6-dihydro-6-oxo-4-[(3-pyridinylmethyl)amino]-, hydrochloride (1:?) (CA INDEX NAME)



●x HCl

OSC.G 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

L10 ANSWER 60 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1985:132065 CAPLUS

DN 102:132065

OREF 102:20731a,20734a

TI Herbicidally active and plant growth regulating pyrimidine derivatives.

IN Meyer, Willy; Hoegerle, Karl; Thummel, Rudolph G.; Tobler, Hans; Boehner, Beat

PA Ciba-Geigy A.-G. , Switz.

SO Eur. Pat. Appl., 48 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 126711	A1	19841128	EP 1984-810227	19840510
	EP 126711	B1	19890802		
	R: BE, CH, DE, FR, GB, IT, LI, NL				
	CA 1231098	A1	19880105	CA 1984-454237	19840514
	JP 59225169	A	19841218	JP 1984-98461	19840516
	US 4741760	A	19880503	US 1986-938674	19861205
PRAI	CH 1983-2636	A	19830516		
	US 1984-610223	A1	19840514		
	US 1985-780547	A1	19850926		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 102:132065

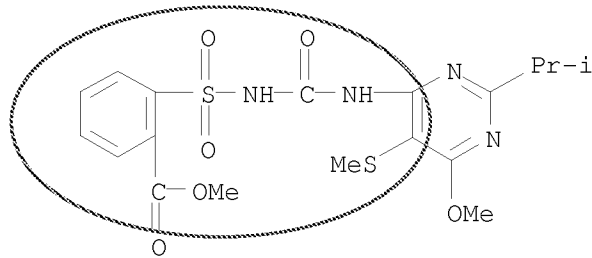
AB Pyrimidinylureas I [R = (un)substituted Ph, furanyl, pyridinyl, pyrrolyl, thienyl; R1 = H, alkyl, alkenyl; R2 = alkenyl, alkynyl, halo, NO2, CHO, amino, cyano, alkoxy, carbonyl, R5S(O)n, (un)substituted alkyl, alkoxy; R3, R4 = H, halo, amino, alkylthio, cyclopropyl, (un)substituted alkyl, alkoxy; R3R4 = atoms required to complete a fused carbocyclic or heterocyclic ring of 4-6 members; R5 = alkyl; X = O, S; n = 0-2] were prepared. Thus, MeCH(CO2Me)2 was cyclocondensed with (H2N)2CO to give 5-methylbarbituric acid. This was chlorinated with POCl3 and treated with NH3 to give 4-amino-2,6-dichloro-5-methylpyrimidine which was heated at 120° with NaOMe to give 4-amino-2,6-dimethoxy-5-methylpyrimidine. This was condensed with 2-OCNSO2C6H4CO2Me to give II. I are effective pre-emergent herbicides against, e.g., *Nasturtium officinalis* at 70.8 ppm.

IT 95520-50-6P 95520-51-7P 95520-52-8P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and herbicidal activity of)

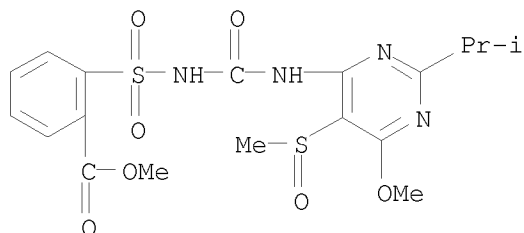
RN 95520-50-6 CAPLUS

CN Benzoic acid, 2-[[[6-methoxy-2-(1-methylethyl)-5-(methylthio)-4-pyrimidinyl]amino]carbonyl]amino]sulfonyl]-, methyl ester (CA INDEX NAME)



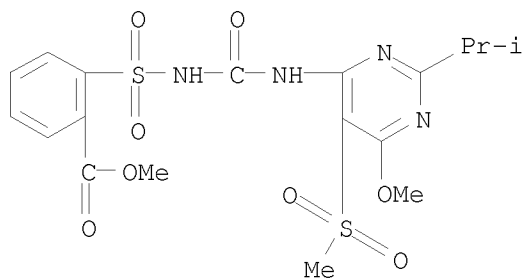
RN 95520-51-7 CAPLUS

CN Benzoic acid, 2-[[[[[6-methoxy-2-(1-methylethyl)-5-(methylsulfinyl)-4-pyrimidinyl]amino]carbonyl]amino]sulfonyl]-, methyl ester (CA INDEX NAME)



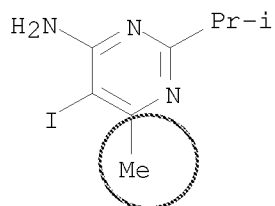
RN 95520-52-8 CAPLUS

CN Benzoic acid, 2-[[[[[6-methoxy-2-(1-methylethyl)-5-(methylsulfonyl)-4-pyrimidinyl]amino]carbonyl]amino]sulfonyl]-, methyl ester (CA INDEX NAME)



OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L10 ANSWER 61 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1984:510856 CAPLUS
 DN 101:110856
 OREF 101:16933a,16936a
 TI Studies on pyrimidine derivatives; XXXV. Iodination of
 2-aminopyrimidines, 4-aminopyrimidines, and 4-pyrimidinones with iodine
 chloride in situ
 AU Sakamoto, Takao; Kondo, Yoshinori; Yamanaka, Hiroshi
 CS Pharm. Inst., Tohoku Univ., Aobayama, 980, Japan
 SO Synthesis (1984), (3), 252-4
 CODEN: SYNTBF; ISSN: 0039-7881
 DT Journal
 LA English
 OS CASREACT 101:110856
 AB Iodination of pyrimidines I (R = H, Me, Me₂CH, Ph; R₁ = NH₂; R₂ = H; R₃ =
 Me) with ICl generated in situ in AcOH gave 42-55% I (R, R₁, R₃ = same as
 above; R₂ = I). Similarly, II (R, R₂, R₃ same as above) gave 51-72% II
 (R₂ = I), which was chlorinated with POCl₃ to give I (R, R₃ = same, R₁ =
 Cl, R₂ = I), which was dechlorinated with p-MeC₆H₄SO₂NHNH₂ and Na₂CO₃ to
 give 77-87% I (R, R₃ = same, R₁ = H, R₂ = I).
 IT 83410-19-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 83410-19-9 CAPLUS
 CN 4-Pyrimidinamine, 5-iodo-6-methyl-2-(1-methylethyl)- (CA INDEX NAME)



OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L10 ANSWER 62 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1983:575787 CAPLUS

DN 99:175787

OREF 99:26977a,26980a

TI 4-N,N-Dimethylcarbamoyloxy-6-aminopyrimidines and their salts and their use as parasiticides

IN Hoegerle, Karl; Gsell, Laurenz; Wehrli, Rudolf

PA Ciba-Geigy A.-G. , Switz.

SO Eur. Pat. Appl., 21 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 80435	A2	19830601	EP 1982-810496	19821119
	EP 80435	A3	19840509		
	R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
	US 4490375	A	19841225	US 1982-442683	19821118
	JP 58092666	A	19830602	JP 1982-204731	19821124
	ZA 8208648	A	19830928	ZA 1982-8648	19821124
	BR 8206810	A	19831004	BR 1982-6810	19821124
PRAI	CH 1981-7537	A	19811125		
	CH 1982-6237	A	19821026		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 99:175787

AB Insecticidal title compds. I (R1, R2 = C1-5 alkyl, C1-3 haloalkyl, C3-6 cycloalkyl, C2-5 alkenyl, C2-5 alkynyl; R1R2 = C2-5 alkylene; R3 = halo, C1-5 alkyl, R4 = C1-5 alkyl; R3 = H, R4 = C2-5 alkyl) were prepared Thus, 2-isopropyl-4-chloro-6-hydroxypyrimidine-HCl was treated with Me2NH and then treated with Me2NCOC1 to give I (R1 = R2 = Me, R3 = H, R4 = Me2CH) (II). At 12.5 ppm II controlled Aphis craccivora by 70-100%.

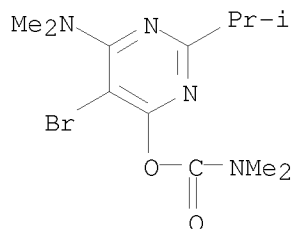
IT 87573-22-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

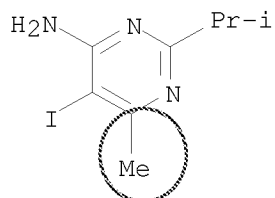
(preparation and herbicidal activity of)

RN 87573-22-6 CAPLUS

CN Carbamic acid, dimethyl-, 5-bromo-6-(dimethylamino)-2-(1-methylethyl)-4-pyrimidinyl ester (9CI) (CA INDEX NAME)

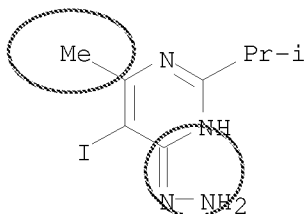


L10 ANSWER 63 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1982:582350 CAPLUS
 DN 97:182350
 OREF 97:30509a,30512a
 TI Studies on pyrimidine derivatives. XXVIII. Synthesis of pyridopyrimidine derivatives by cross-coupling of halopyrimidines with olefins and acetylenes
 AU Sakamoto, Takao; Kondo, Yoshinori; Yamanaka, Hiroshi
 CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan
 SO Chemical & Pharmaceutical Bulletin (1982), 30(7), 2410-16
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal
 LA English
 OS CASREACT 97:182350
 AB Three kinds of pyridopyrimidines were synthesized from appropriate pyrimidine derivs. Cross-coupling of 4-amino-5-iodopyrimidines with α,β -unsatd. carboxylic esters followed by ring-closure gave pyrido[2,3-d]pyrimidines. Ammonolysis of 4-(ethoxycarbonyl)-5-(phenylethynyl)pyrimidines and 5-(ethoxycarbonyl)-4-(phenylethynyl)pyrimidines, which were obtained by cross-coupling of halopyrimidines with PhC.tplbond.CH, gave pyrido[3,4-d]pyrimidines and pyrido[4,3-d]pyrimidines, resp.
 IT 83410-19-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, with Et acrylate)
 RN 83410-19-9 CAPLUS
 CN 4-Pyrimidinamine, 5-iodo-6-methyl-2-(1-methylethyl)- (CA INDEX NAME)

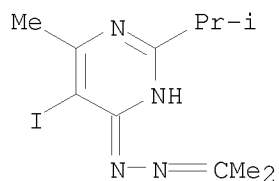


OSC.G 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)

L10 ANSWER 64 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1979:152120 CAPLUS
 DN 90:152120
 OREF 90:24185a,24188a
 TI Studies on pyrimidine derivatives. IX. Coupling reaction of
 mono-substituted acetylenes with iodopyrimidines
 AU Edo, Kiyoto; Sakamoto, Takao; Yamanaka, Hiroshi
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan
 SO Chemical & Pharmaceutical Bulletin (1978), 26(12), 3843-50
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal
 LA English
 OS CASREACT 90:152120
 AB Pyrimidine derivs. containing an acetylenic side chain were prepared by
 reaction
 of alkyl or Ph acetylenes with 2-, 4-, and 5-iodopyrimidines in the
 presence of Pd(PPh₃)₂Cl₂. When HC.tplbond.CCH₂OH was used, the reaction
 yield decreased. The reaction proceeded with 2,4-diiodo- and
 4,6-diiodopyrimidines to give dialkynyl derivs. This acetylene coupling
 reaction was applicable to the preparation of 4-quinazoline derivs.
 IT 69696-40-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and cleavage of hydrazino group)
 RN 69696-40-8 CAPLUS
 CN Pyrimidine, 4-hydrazinyl-5-iodo-6-methyl-2-(1-methylethyl)- (CA INDEX
 NAME)



IT 69695-89-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 69695-89-2 CAPLUS
 CN 2-Propanone, 2-[5-iodo-6-methyl-2-(1-methylethyl)-4-pyrimidinyl]hydrazone
 (CA INDEX NAME)



OSC.G 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)

L10 ANSWER 65 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1979:72140 CAPLUS

DN 90:72140

OREF 90:11419a,11422a

TI Pyrimidines. Part LXVII. The SN(ANRORC) mechanism. Part XIX. Aspects of the amination of 4-tert-butyl-5-halopyrimidines by potassium amide in liquid ammonia

AU Rasmussen, C. A. H.; Van der Plas, H. C.

CS Lab. Org. Chem., Agric. Univ. Wageningen, Wageningen, Neth.

SO Recueil des Travaux Chimiques des Pays-Bas (1978), 97(11), 288-92

CODEN: RTCPA3; ISSN: 0034-186X

DT Journal

LA English

OS CASREACT 90:72140

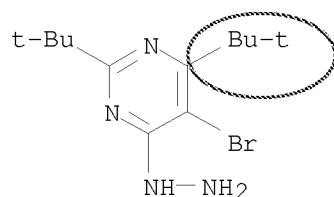
AB The amination of 5-bromo-2,4-di-tert-butylpyrimidine (I), 5-chloro-2,4-di-tert-butylpyrimidine (II) and 4-tert-butyl-5-chloropyrimidine (III) on treatment with KNH₂ in NH₃(l) was studied. I yielded 6-amino-2,4-di-tert-butylpyrimidine (IV) as major product. In contrast, II and III gave 6-amino-5-chloro-2,4-di-tert-butylpyrimidine and 6-amino-4-tert-butyl-5-chloropyrimidine, resp., as main products, together with minor quantities of IV and 6-amino-4-tert-butylpyrimidine. Choice of halogen and accessibility of C(2) of the pyrimidine nucleus influence the mechanism of the amination. An SN(ANRORC) mechanism is not operative in any of the conversions described.

IT 69050-85-7P 69050-86-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deamination of)

RN 69050-85-7 CAPLUS

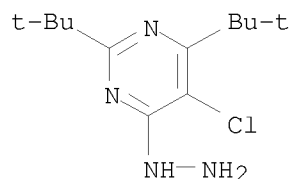
CN Pyrimidine, 5-bromo-2,4-bis(1,1-dimethylethyl)-6-hydrazinyl- (CA INDEX NAME)



does not match R2 of the claims

RN 69050-86-8 CAPLUS

CN Pyrimidine, 5-chloro-2,4-bis(1,1-dimethylethyl)-6-hydrazinyl- (CA INDEX NAME)



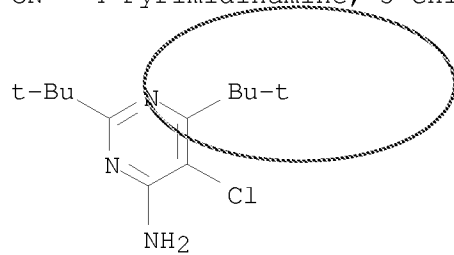
IT 69050-84-6P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 69050-84-6 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-2,6-bis(1,1-dimethylethyl)- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L10 ANSWER 66 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1978:615426 CAPLUS

DN 89:215426

OREF 89:33481a,33484a

TI Nitropyrimidine derivatives

IN Fischer, Hanspeter

PA Ciba-Geigy A.-G., Switz.

SO Pat. Specif. (Aust.), 41 pp.

CODEN: ALXXAP

DT Patent

LA English

FAN.CNT 1

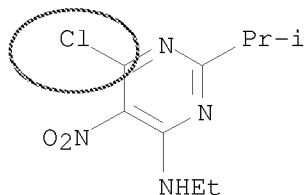
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	AU 492126	B	19780303	AU 1974-68921	19740514
PRAI	AU 1974-68921		19740514		

AB Eighty nitropyrimidines I (R1 = C1-6 alkyl, C2-5 alkenyl, C3-6 un- or Me- or Et-substituted cycloalkyl, alkoxy-, cyano-, or hydroxyalkyl; R2, R3 = H, C1-4 alkyl; R4 alkyl, C3-4 alkenyl, C3-6 un- or Me- or Et-substituted cycloalkyl; R5 = H, alkyl, haloalkyl, alkoxy, alkyl- or dialkylamino) and their acid addition salts, useful as herbicides and plant growth inhibitors (extensive data tabulated), were prepared by 3 methods. Thus, EtNH₂(g) was passed into dichloropyrimidine II (R5 = MeS) in alc. at .apprx.35° and the mixture stirred 2 h at room temperature to give I (R1 = R3 = Et, R2 = R4 = H, R5 = MeS), which was refluxed 20 h with stirring with NaOMe-MeOH to give I (R1 = R3 = Et, R2 = R4 = H, R5 = MeO).

IT 53039-36-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and aminolysis of)

RN 53039-36-4 CAPLUS

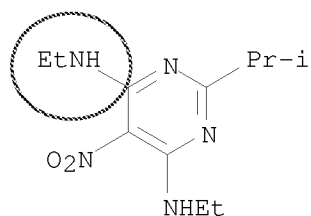
CN 4-Pyrimidinamine, 6-chloro-N-ethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



IT 53038-76-9P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and herbicidal activity of)

RN 53038-76-9 CAPLUS

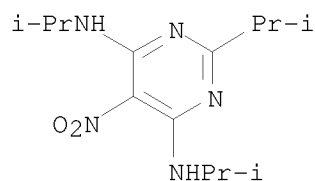
CN 4,6-Pyrimidinediamine, N4,N6-diethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



IT 53038-75-8P 53038-77-0P 53038-78-1P
 53038-79-2P 53038-80-5P 53038-81-6P
 53038-82-7P 53100-60-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

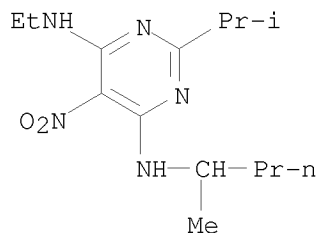
RN 53038-75-8 CAPLUS

CN 4,6-Pyrimidinediamine, N4,N6,2-tris(1-methylethyl)-5-nitro- (CA INDEX NAME)



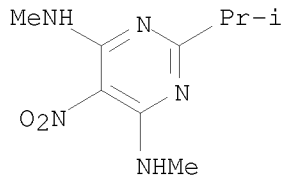
RN 53038-77-0 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(1-methylbutyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



RN 53038-78-1 CAPLUS

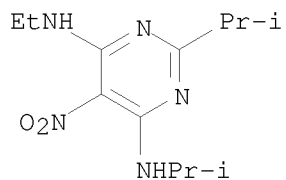
CN 4,6-Pyrimidinediamine, N4,N6-dimethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



RN 53038-79-2 CAPLUS

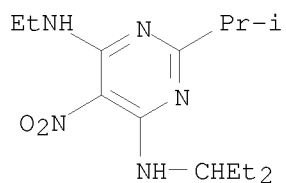
CN 4,6-Pyrimidinediamine, N4-ethyl-N6,2-bis(1-methylethyl)-5-nitro- (CA

INDEX NAME)



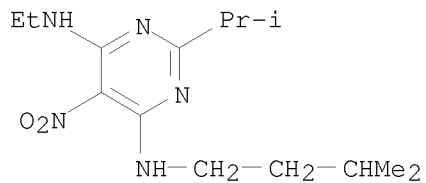
RN 53038-80-5 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(1-ethylpropyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



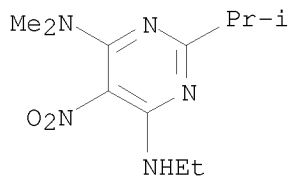
RN 53038-81-6 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(3-methylbutyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



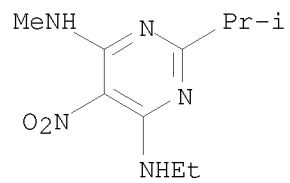
RN 53038-82-7 CAPLUS

CN 4,6-Pyrimidinediamine, N6-ethyl-N4,N4-dimethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



RN 53100-60-0 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6-methyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



L10 ANSWER 67 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1976:429570 CAPLUS

DN 85:29570

OREF 85:4793a,4796a

TI 5-Nitropyrimidines for inhibiting plant growth

PA Ciba-Geigy A.-G., Switz.

SO Austrian, 20 pp.

CODEN: AUXXAK

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	AT 327605	B	19760210	AT 1974-3729	19740506
	AT 7403729	A	19750415		
PRAI	AT 1974-3729		19740506		

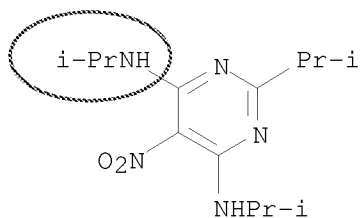
AB The title compds. I(R1 = C1-6 alkyl, C2-5 alkenyl, cycloalkyl, alkoxyalkyl, hydroxyalkyl, or cyanoalkyl; R2 and R3 = H or C1-4 alkyl; R4 = lower alkyl or cycloalkyl; R5 = H, lower alkoxy, alkyl, haloalkyl, alkylamino, dialkylamino, or halogen) are herbicides and plant-growth regulators. Thus 4 kg I(R1 = R4 = Et; R2 = R3 = H; R5 = iso-Pr) [53038-76-9]/ha controlled *Cyperus esculentus* without damaging alfalfa. Several syntheses are described.

IT 53038-75-8P 53038-76-9P 53038-77-0P
 53038-78-1P 53038-79-2P 53038-80-5P
 53038-82-7P 53100-60-0P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

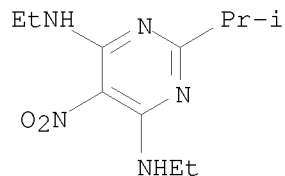
RN 53038-75-8 CAPLUS

CN 4,6-Pyrimidinediamine, N4,N6,2-tris(1-methylethyl)-5-nitro- (CA INDEX NAME)



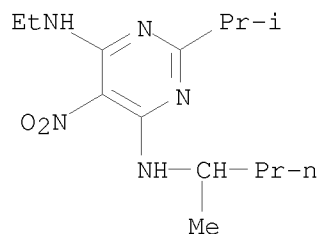
RN 53038-76-9 CAPLUS

CN 4,6-Pyrimidinediamine, N4,N6-diethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



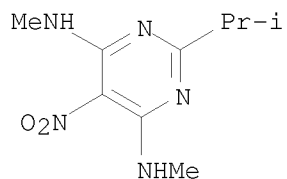
RN 53038-77-0 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(1-methylbutyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



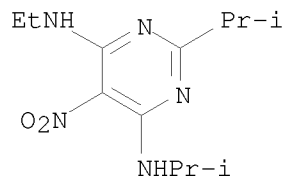
RN 53038-78-1 CAPLUS

CN 4,6-Pyrimidinediamine, N4,N6-dimethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



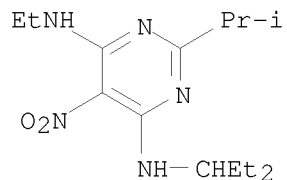
RN 53038-79-2 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6,2-bis(1-methylethyl)-5-nitro- (CA INDEX NAME)



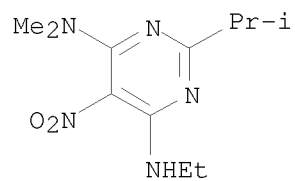
RN 53038-80-5 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(1-ethylpropyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



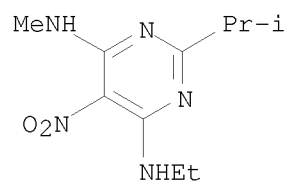
RN 53038-82-7 CAPLUS

CN 4,6-Pyrimidinediamine, N6-ethyl-N4,N4-dimethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



RN 53100-60-0 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6-methyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)

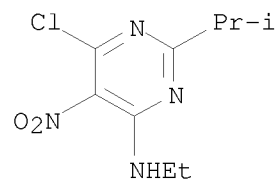


IT 53039-36-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with isopropylamine)

RN 53039-36-4 CAPLUS

CN 4-Pyrimidinamine, 6-chloro-N-ethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



L10 ANSWER 68 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1976:74306 CAPLUS

DN 84:74306

OREF 84:12199a,12202a

TI 5-Nitropyrimidine derivatives and their use as plant growth regulators

IN Fischer, Hanspeter

PA Ciba-Geigy A.-G., Switz.

SO Ger. Offen., 47 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2520381	A1	19751120	DE 1975-2520381	19750507
	CH 595061	A5	19780131	CH 1974-6426	19740510
	FR 2270249	A1	19751205	FR 1975-14416	19750507
	US 4014677	A	19770329	US 1975-575308	19750507
	CA 1042890	A1	19781121	CA 1975-226551	19750508
	IL 47256	A	19790131	IL 1975-47256	19750508
	BE 828869	A1	19751110	BE 1975-156175	19750509
	NL 7505503	A	19751112	NL 1975-5503	19750509
	ZA 7502999	A	19760428	ZA 1975-2999	19750509
	AT 7503556	A	19771215	AT 1975-3556	19750509
	GB 1501935	A	19780222	GB 1975-19641	19750509
	JP 50155624	A	19751216	JP 1975-56686	19750510
	AU 7581055	A	19761118	AU 1975-81055	19750512
	AU 498132	B2	19790215		
PRAI	CH 1974-6426	A	19740510		

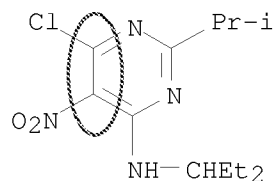
AB Pyrimidines I (R = Et, R1 = SEt, SCHMe2, OMe, OEt, SPr, OPr; R = SMe, R1 = SEt, OCHMe2, SCHMe2, OEt, OPr; R = Me, R1 = OEt; R = CF3, R1 = SEt) were prepared by aminating and alkoxylation or alkylthiolating II. Both pre- and post-emergence I had improved herbicidal activity over I (R = SMe, R1 = NHet, NHCHMe2). I (R = Et, R1 = SEt) was also effective for sucker control on tobacco.

IT 58289-03-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and alkoxylation of)

RN 58289-03-5 CAPLUS

CN 4-Pyrimidinamine, 6-chloro-N-(1-ethylpropyl)-2-(1-methylethyl)-5-nitro-
(CA INDEX NAME)



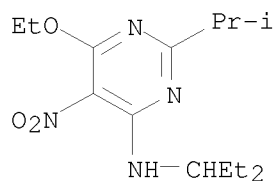
IT 58289-04-6P 58289-48-8P 58289-49-9P

58316-78-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

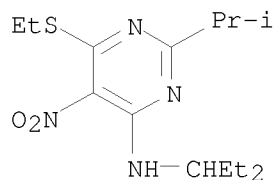
RN 58289-04-6 CAPLUS

CN 4-Pyrimidinamine, 6-ethoxy-N-(1-ethylpropyl)-2-(1-methylethyl)-5-nitro-
(CA INDEX NAME)



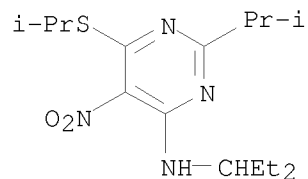
RN 58289-48-8 CAPLUS

CN 4-Pyrimidinamine, N-(1-ethylpropyl)-6-(ethylthio)-2-(1-methylethyl)-5-nitro-
(CA INDEX NAME)



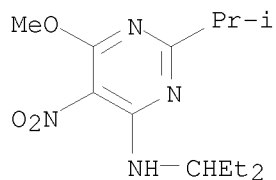
RN 58289-49-9 CAPLUS

CN 4-Pyrimidinamine, N-(1-ethylpropyl)-2-(1-methylethyl)-6-[(1-methylethyl)thio]-5-nitro-
(CA INDEX NAME)



RN 58316-78-2 CAPLUS

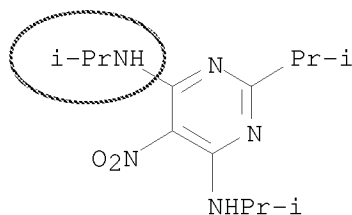
CN 4-Pyrimidinamine, N-(1-ethylpropyl)-6-methoxy-2-(1-methylethyl)-5-nitro-
(CA INDEX NAME)



OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

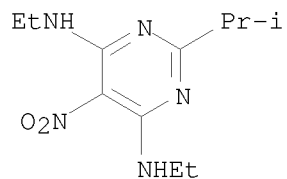
L10 ANSWER 69 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1975:27230 CAPLUS
 DN 82:27230
 OREF 82:4329a,4332a
 TI Nitropyrimidine plant growth regulators [herbicides]
 IN Fischer, Hanspeter
 PA Ciba-Geigy A.-G.
 SO Ger. Offen., 44 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2356644	A1	19740522	DE 1973-2356644	19731113
	CH 574206	A5	19760415	CH 1972-16728	19721116
	US 3948914	A	19760406	US 1973-415209	19731112
	CA 1011960	A1	19770614	CA 1973-185680	19731113
	BE 807321	A1	19740514	BE 1973-137749	19731114
	FR 2206909	A1	19740614	FR 1973-40409	19731114
	NL 7315695	A	19740520	NL 1973-15695	19731115
	ZA 7308750	A	19740731	ZA 1973-8750	19731115
	JP 49081538	A	19740806	JP 1973-128692	19731115
	IT 1001780	B	19760430	IT 1973-31377	19731115
	GB 1448851	A	19760908	GB 1973-53090	19731115
	GB 1448852	A	19760908	GB 1975-8912	19731115
	US 4055411	A	19771025	US 1975-641792	19751218
PRAI	CH 1972-16728	A	19721116		
	US 1973-415209	A3	19731112		
AB	4,6-Dialkylamino-5-nitropyrimidines I (R,R1,R2 and R3 = H, alkyl or alkenyl; R4 = alkyl, CF3, Cl or alkylamino) were especially effective as herbicides. For example, 4,6-bis(ethylamino)-5-nitro-2-isopropylpyrimidine (I, R = R2 = Et, R1 = R3 = H, R4 = iso-Pr) [53038-76-9] 4kg/ha, controlled Cyperus esculentus, Digitaria sanguinalis, Amaranthus, Setaria italica, and Echinochloa crus-galli, with little or no phytotoxicity to culture plants.				
IT	53038-75-8	53038-76-9	53038-77-0		
	53038-78-1	53038-79-2	53038-80-5		
	53038-81-6	53038-82-7	53100-60-0		
	RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses) (herbicide)				
RN	53038-75-8	CAPLUS			
CN	4,6-Pyrimidinediamine, N4,N6,2-tris(1-methylethyl)-5-nitro- (CA INDEX NAME)				



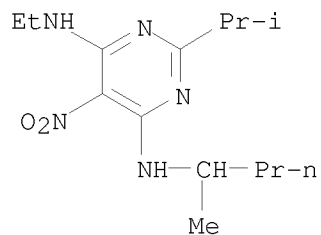
RN 53038-76-9 CAPLUS

CN 4,6-Pyrimidinediamine, N4,N6-diethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



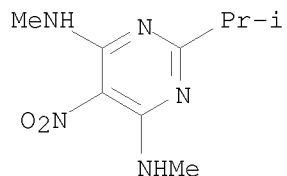
RN 53038-77-0 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(1-methylbutyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



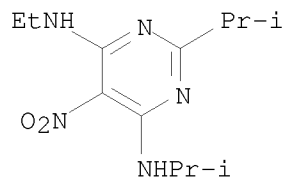
RN 53038-78-1 CAPLUS

CN 4,6-Pyrimidinediamine, N4,N6-dimethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



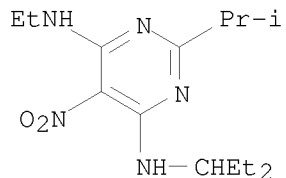
RN 53038-79-2 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6,2-bis(1-methylethyl)-5-nitro- (CA INDEX NAME)



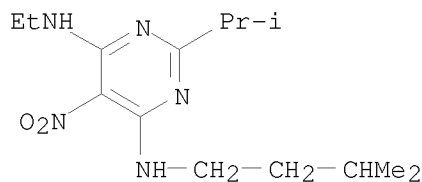
RN 53038-80-5 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(1-ethylpropyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



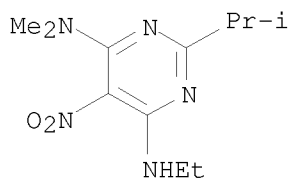
RN 53038-81-6 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(3-methylbutyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



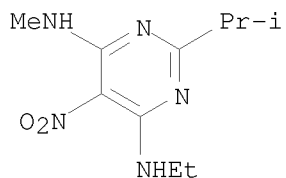
RN 53038-82-7 CAPLUS

CN 4,6-Pyrimidinediamine, N6-ethyl-N4,N4-dimethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



RN 53100-60-0 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6-methyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



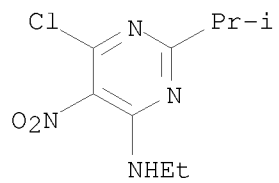
IT 53039-36-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and reaction of with alkylamines)

RN 53039-36-4 CAPLUS

CN 4-Pyrimidinamine, 6-chloro-N-ethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)

10/581,897 (amended)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L10 ANSWER 70 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1974:96024 CAPLUS

DN 80:96024

OREF 80:15451a,15454a

TI 2-(Cyclo)alkyl-4(3H)-pteridinones

IN Liede, Volker; Popelak, Alfred; Thiel, Max; Hardebeck, Klaus; Roesch, Egon

PA Boehringer Mannheim G.m.b.H.

SO Ger. Offen., 11 pp.

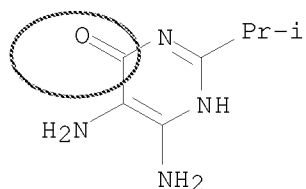
CODEN: GWXXBX

DT Patent

LA German

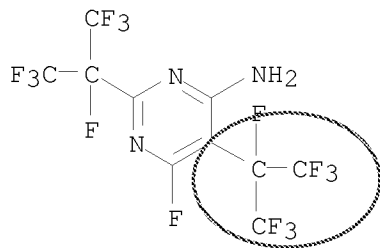
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2232098	A1	19740117	DE 1972-2232098	19720630
	CA 997759	A1	19760928	CA 1973-168667	19730411
	US 3895012	A	19750715	US 1973-371210	19730618
	FR 2190447	A1	19740201	FR 1973-23093	19730625
	DD 106174	A5	19740612	DD 1973-171802	19730625
	GB 1373338	A	19741113	GB 1973-30061	19730625
	NL 7308926	A	19740102	NL 1973-8926	19730627
	ZA 7304373	A	19740626	ZA 1973-4373	19730627
	CH 579082	A5	19760831	CH 1973-9398	19730627
	JP 49042694	A	19740422	JP 1973-73541	19730629
	AT 7305774	A	19751015	AT 1973-5774	19730629
	AT 330784	B	19760726		
	HU 167717	B	19751225	HU 1973-BO1446	19730629
	AU 7357624	A	19750109	AU 1973-57624	19730702
	AT 7500582	A	19760415	AT 1975-582	19750127
	AT 333771	B	19761210		
PRAI	DE 1972-2232098	A	19720630		
	AT 1973-5774	A	19730629		
AB	Nine pteridinones I (R = e.g. Et, Me2CH, Pr, cyclopropyl, or 3-pentyl), useful as diuretics, were manufactured by a) reaction of glyoxal-H2O with the pyrimidines II in H2O at reflux or b) reaction of the pyrazine III with RC(:NH)OH.				
IT	52403-08-4				
	RL: RCT (Reactant); RACT (Reactant or reagent) (reaction with glyoxal hydrate)				
RN	52403-08-4 CAPLUS				
CN	4(3H)-Pyrimidinone, 5,6-diamino-2-(1-methylethyl)- (CA INDEX NAME)				



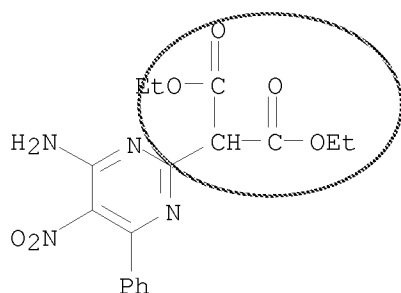
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L10 ANSWER 71 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1971:551748 CAPLUS
 DN 75:151748
 OREF 75:23933a,23936a
 TI Polyfluoroheterocyclic compounds. XXI. Thermal rearrangement of
 perfluoropyridazine and perfluoroalkylpyridazines to pyrimidines
 AU Chambers, R. D.; MacBride, J. A. H.; Musgrave, W. K. R.
 CS Chem. Dep., Univ. Durham, Durham, UK
 SO Journal of the Chemical Society [Section] C: Organic (1971), (20), 3384-8
 CODEN: JSOOAX; ISSN: 0022-4952
 DT Journal
 LA English
 AB Pyrolysis of tetrafluoropyridazine at .apprx.800° gave 50%
 tetrafluoropyrimidine, 18% 2,4,6-trifluoro-5-(trifluoromethyl)pyrimidine,
 5% tetrafluoropyrazine, and 1% hexafluorobenzene. Pyrolysis of
 3,6-difluoro-4,5-bis(heptafluoroisopropyl)pyridazine at .apprx.580°
 gave 35% 4,6-difluoro-2,5-bis(heptafluoroisopropyl)pyrimidine and
 2,5-difluoro-3,6-bis(heptafluoroisopropyl)pyrazine. Trapping expts. with
 NH3 discounted a nucleophilic rearrangement of a primary pyrolysis product
 to give the 2,5-disubstituted pyrimidine, and a mechanism involving the
 formation and sigmatropic rearrangement of intermediate diazabenzvalenes
 was suggested.
 IT 34122-49-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 34122-49-1 CAPLUS
 CN 4-Pyrimidinamine, 6-fluoro-2,5-bis[1,2,2,2-tetrafluoro-1-
 (trifluoromethyl)ethyl]- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L10 ANSWER 72 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1969:501825 CAPLUS
 DN 71:101825
 OREF 71:18969a,18972a
 TI Heterocyclic studies. X. 4-Phenylpteridine and some methyl derivatives
 AU Clark, Jim; Murdock, Peter N. T.
 CS Univ. Salford, Salford, UK
 SO Journal of the Chemical Society [Section] C: Organic (1969), (14), 1883-6
 CODEN: JSOAX; ISSN: 0022-4952
 DT Journal
 LA English
 AB Suitable nitration conditions for obtaining two mononitro and two dinitro
 derivs. of 2,4-dihydroxy-6-phenylpyrimidine are described. The 5-nitro
 compound was converted into 4-phenylpteridine and its 2- and 7-methyl, 2,7-
 and 6,7-dimethyl, and 2,6,7-trimethyl derivs. None of the compds. was
 appreciably hydrated in aqueous solution as the neutral mol. but
 4-phenylpteridine and its 2-methyl derivative formed 5,6,7,8-dihydrated
 cations (I). The compds. containing 6- or 7-methyl groups were unstable as
 cations and apparently underwent dimerization and oxidation in strongly
 acidic solns.
 IT 23766-67-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 23766-67-8 CAPLUS
 CN Propanedioic acid, 2-(4-amino-5-nitro-6-phenyl-2-pyrimidinyl)-,
 1,3-diethyl ester (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L10 ANSWER 73 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1969:87842 CAPLUS

DN 70:87842

OREF 70:16424h,16425a

TI Sulfanilamide derivatives as bactericides

PA Geigy, J. R., A.-G.

SO Fr., 8 pp.

CODEN: FRXXAK

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	FR 1514738		19680223	FR 1967-99070	19670316
	CH 472412			CH	
	DE 1695012			DE	
	GB 1187612			GB	
	US 3457278		19690722	US	19670314
	US 3499080		19700303	US	19690122
PRAI	CH		19660317		

OS MARPAT 70:87842

AB The title compds. (I) (R1 = H, Me, MeO, or cyclopropyl, R2 = MeO, Me, or Cl, and R3 = cyclopropyl or MeS) are prepared Thus, 17.6 g. Et α -diazo- β -oxocyclo-propanepropionate in 135 ml. MeOH was treated with 1 g. Cu powder and 4 drops BF₃ etherate at 60-70°; after 2 hrs. the evolution of N had ended to give Et α -methoxy- β -oxocyclopropane-propionate (II), b_{0.1} 60-1°.

Na (2.25 g.) was dissolved in 45 ml. EtOH, 8.75 g. (H₂N)2CS and 12.25 g. II were added, and the whole refluxed 7 hrs. to give 2-mercapto-5-methoxy-6-cyclopropyl-4-pyrimidinol (III), m. 211-13°.

III (8 g.) was added to 100 ml. H₂O and 10 ml. 25% NH₄OH, the whole heated at 70-80°, 24 g. Raney Ni added portionwise, and heating continued 1.5 hrs. at 110-20° to give 5-methoxy-6-cyclopropyl-4-pyrimidinol (IV), m. 120-2°. IV (5.7 g.) 36 ml. POCl₃, and 2.6 ml. PhNMe₂ was heated 1.5 hrs. at 90-100° to give 4-chloro-5-methoxy-6-cyclopropylpyrimidine (V). A mixture of 10.7 g. Na derivative of sulfanilamide, 40 ml. Me₂SO, 4.61 g. V, 0.6 g. Me₃N, and 6 ml. HCONMe₂ was heated 48 hrs. at 60-70° to give N1-(5-methoxy-6-cyclopropyl-4-pyrimidinyl)sulfanilamide (VI), m. 201-3°. AcNH₂ (32.5 g.) and 34.9 g. Na derivative of sulfanilamide were mixed and melted at 160°, the melt cooled to 90°, and 14.6 g. N-(6-cyclopropyl-5-methoxy - 4 - pyrimidinyl) - N,N,N - trimethylammonium chloride (obtained from V and Me₃N) added, and the whole stirred 10 min. at 100° to give VI. Et β -oxocyclo-propanepropionate (31.2 g.) was added dropwise at 55° to a solution of 4.6 g. Na in 120 ml. EtOH, 31.2 g. MeI added dropwise, and the mixture worked up to give Et α -methyl- β -oxocyclopropanepropionate (VII), b₁₂ 90-5°.

Treatment of this ester as above gave successively 2-mercapto-5-methyl-6-cyclopropyl-4-pyrimidinol, m. 232-4°, 5-methyl-6-cyclopropyl-4-pyrimidinol, m. 180-2°, 4-chloro-5-methyl-6-cyclopropylpyrimidine m. 80-2°, and N1-(5-methyl-6-cyclopropyl-4-pyrimidinyl)sulfanilamide, m. 237-9°.

Acetamidine-HCl (5.95 g.) was added to a mixture of 10.7 g. VII and 3 ml. EtOH, 2.52 g. NaOH in 2.5 ml. EtOH added, and the mixture stirred until the NaOH dissolved. The mixture was placed in a H₂SO₄ desiccator and evacuated one week at 12 mm. The resulting solid was crushed with 2.5 g. Na₂CO₃ and

2.5 g. NaHCO₃ and the solid extracted for 18 hrs. with C₆H₆ to give 6-cyclopropyl-2,5-dimethyl-4-pyrimidinol (VIII), m. 218-20°.

Treatment of VIII as above gave successively:

4-chloro-6-cyclopropyl-2,5-dimethylpyrimidine (oil), and

N1-(6-cyclopropyl-2,5-dimethyl-4-pyrimidinyl)sulfanilamide, m.

185-7°. A solution of 15.5 g. O-methylisourea-HCl in 50 ml. MeOH was

added slowly to a solution of 6.45 g. Na in 70 ml. MeOH, the temperature being kept

below -5°. VII (17 g.) was added and the whole mixed 3 days at room temperature and 3 hrs. at 70-80° to give

6-cyclopropyl-2-methoxy-5-methyl-4-pyrimidinol (IX), m. 205-7°.

Treatment of IX as above gave successively

4-chloro-6-cyclopropyl-2-methoxy-5-methylpyrimidine, m. 61-2°, and

N1-(6-cyclopropyl-2-methoxy-5-methyl-4-pyrimidinyl)sulfanilamide, m.

213-14°. 6-Cyclopropyl-4-pyrimidinol (6.8 g.) was dissolved at

80° in 15 ml. AcOH and 0.3 ml. Ac₂O, the cooled solution (50°)

treated with 8.3 g. N-chlorosuccinimide, and the whole stirred 3 hrs. at

60° to give 5-chloro-6-cyclopropyl-4-pyrimidinol (X), m.

218-20°. Treatment of X as above gave successively:

5-cyclopropyl-4,5-dichloropyrimidine, and

N1-(5-chloro-6-cyclopropyl-4-pyrimidinyl)sulfanilamide, m. 202-3°.

Cyclopropylcarboxamide-HCl (20.85 g.) was dissolved in 60 ml. MeOH and

cooled to -5°, a solution of 8.04 g. Na in 81 ml. MeOH added, and the

whole treated with 30.6 g. di-Et methylmalonate. The temperature was raised

slowly over 2 hrs. to 20°; the mixture was stirred 2 days at

20°, kept 4 days at 20°, and heated 1.5 hrs. at

50-60° to give 2-cyclopropyl-5-methyl-4,6-dihydroxypyrimidine, m.

>300°. Subsequent treatment gave

2-cyclopropyl-4,6-dichloro-5-methylpyrimidine,

2-cyclopropyl-4-chloro-5-methyl-6-(methylthio)pyrimidine, m.

49-51°, and N1-[2-cyclopropyl-5-methyl-6-(methylthio)-4-

pyrimidinyl]-sulfanilamide, m. 229-30°. The title compds. are

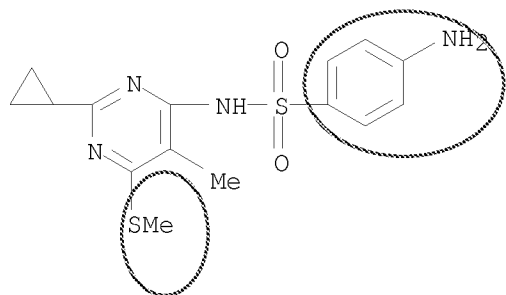
useful in the treatment of infections by gram-pos. or gram-neg. bacteria.

IT 21721-75-5P

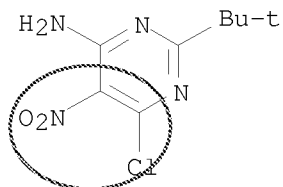
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 21721-75-5 CAPLUS

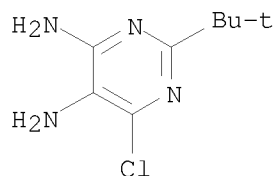
CN Benzenesulfonamide, 4-amino-N-[2-cyclopropyl-5-methyl-6-(methylthio)-4-pyrimidinyl]- (CA INDEX NAME)



L10 ANSWER 74 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1968:114555 CAPLUS
 DN 68:114555
 OREF 68:22087a,22090a
 TI Purine stacking. Effects of alkyl substituents
 AU Helmkamp, George K.; Kondo, Norman S.
 CS Univ. of California, Riverside, CA, USA
 SO Biochimica et Biophysica Acta, Nucleic Acids and Protein Synthesis (1968),
 157(2), 242-57
 CODEN: BBNPAS; ISSN: 0005-2787
 DT Journal
 LA English
 AB The association behavior of various alky-substituted purines in aqueous
 solution was
 investigated by N.M.R. and vapor pressure osmometry. The data suggested
 that stacking was highly dependent on the nature and location of the alkyl
 substituent. Larger alkyl groups enhanced the degree of association, and
 stacking was highly dependent on the nature and location of the
 substituent. Differential chemical shifts of the ring protons suggest that
 the association process became less random as the size of the alkyl group was
 increased. Results are reported for 2-, 6-, 8-, and 9-tert-butylpurine,
 8-isopropylpurine, and 9-methyl-, 9-ethyl-, and 9-isopropylpurine.
 Synthetic procedures are given for the tert-butylpurines and
 isopropylpurines. 24 references.
 IT 18202-76-1P 18202-77-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 18202-76-1 CAPLUS
 CN 4-Pyrimidinamine, 6-chloro-2-(1,1-dimethylethyl)-5-nitro- (CA INDEX NAME)



RN 18202-77-2 CAPLUS
 CN 4,5-Pyrimidinediamine, 6-chloro-2-(1,1-dimethylethyl)- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

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627.64

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

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